

# Crewe Works: Main Series

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
1	C	42		General arrangement and details of damper gear.	11 Oct 1884	3 Jun 1905	6'0" Compound Engine	References to 18" goods & 6'6" compound
1	C	84		14" Feed water heater - cast steel tube plate (see other information column)	21 Feb 1890			Actual number is 84B
1	C	119		Underframe for coupe	17 Dec 1887	9 Apr 1890		Alterations made for Mr Footners inspection carriage
1	C	175		Details of leading axle box	22 Jul 1915		6'6" 4-cylinder passenger engine (straight link)	Also 6'0" 4-cylinder passenger engine (straight link)
1	C	184		General arrangement & details of cylinder cock gear			5'6" Compound passenger tank engine	
1	C	202		Arrangement & details of brake gear	27 Feb 1888		Coupe	
1	C	258		Coal bunker	1888		Coupe	
1	C	262		Leading & driving springs	13 Feb 1888		DX engine	
1	c	264		Central buffer & coupling	21 Mar 1888	30 Apr 1890	Coupe	
1	C	269		Details of disc & guides for high pressure valve motion	20 Mar 1885	24 Sep 1887	4'6" Compound passenger engine	
1	C	294		Leading & driving spring	13 Mar 1888		2'6" Shunting engine	
1	C	295		Leading spring	13 Feb 1888		6'0" Four coupled passenger engine	
1	C	337		Trailing spring	14 Dec 1908	19 Nov 1943	4'6" Eight wheel, 4'3" Coal & 5'6" Passenger side tank engines. 4'0" Shunting engine with crane.	Also 5'0" six wheel coupled straight link engine
1	C	337		Detail of trailing springs	27 Jun 1917		4'6" Four coupled side tank engine 2-4-2 type	

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1	C	351		Detail of driving spring	27 Jun 1917	19 Nov 1943	4'6" Four coupled side tank engine 2-4-2 type	
1	C	392		Details of castings for valve motion	10 Apr 1885	7 Dec 1894	4'6" Compound passenger engine	
1	C	393		High pressure slide bars, valve buckle & piston rod	30 Apr 1885	11 Dec 1894	4'6" Eight wheel compound passenger engine	
1	C	398		Standard whistle stand. Arrangement for fastening to cab plate	4 May 1888		Standard	
1	C	401		Alteration of pump feed valve	30 Jun 1885	11 Jun 1888	4'6" Side tank compound engine	
1	C	451		Details of brake gear	2 Jul 1888		4'3" Special tank engine	
1	C	460		Details of brake gear	2 Jul 1888		Four wheel shunting engine	
1	C	462		Details of brake gear	2 Jul 1888	13 Jan 1923	4'3" Side tank coal engine	
1	C	489		Steam pipe expansion joint	22 Aug 1888	28 Feb 1895	5'0" compound goods tank engine	Includes diagram showing position of joint
2	C	524		Alteration to exhaust steam pipes to trailing tanks	19 Oct 1885	7 Feb 1895	4'6" Compound & 4'6" eight wheel side tank engines	
2	C	543		Details of cast brass steam pipes	30 Mar 1885	24 Sep 1894	4'6" Compound passenger engine	
2	C	564		Piston rod & slide bars	22 Jul 1886	25 Feb 1941	18" Goods engine	
2	C	630		Diagram of connecting & coupling rods	18 Nov 1910			
2	C	637		Arrangement & details of springs for low pressure driving wheels	3 Dec 1888	5 Sep 1890	5'0" Compound goods engine	References to 6'0" & 7'0" engines
2	C	642		Lubricators for high & low pressure connecting rods	27 Nov 1888		7'0" Compound passenger engine	
2	C	650		Cover for low pressure cylinder. 30" Diameter	5 Dec 1888		7'0" Compound passenger engine	
2	C	651		Discs & guides	11 Dec 1888		7'0" Compound passenger engine	
2	C	652		Radius rod bracket for high pressure motion	8 Dec 1888		7'0" Compound passenger engine	
2	C	653		Detail of frame plates	11 Dec 1888		7'0" Compound passenger engine	

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2	C	657	Reversing screw bracket	17 Dec 1888		7'0" Compound passenger engine	
2	C	658	Valve motion for high pressure cylinders	14 Dec 1888		7'0" Compound passenger engine	
2	C	678	Low pressure motion	7 Jan 1889		7'0" Compound passenger engine	
2	C	681	Driving splasher	10 Jan 1889		7'0" Compound passenger engine	
2	C	686	Details of cast steel leading & driving wheels	7 Jan 1889		7'0" Compound passenger engine	
2	C	690	Special steam box for whistle stand	19 Jan 1889		7'0" Compound passenger engine	
2	C	694	Balanced Valve and Buckle 20" cylinder	7 Jan 1889		7'0" Compound Passenger Engine	
2	C	699	Cover box for radius rod	25 Jan 1889		7'0" Compound passenger engine	
2	C	707	Steps for outside footplate	1 Feb 1889		7'0" Compound passenger engine	
2	C	712	Alteration to tie rods for hornblocks	4 Feb 1889		Special DX	
2	C	755	Steam Valve for 20" Low Pressure cylinder	9 Mar 1889		7'0" Compound Passenger Engine	
2	C	767	Valve box on the side of the low pressure cylinder	13 Mar 1889		7' 0" compound passenger engine	
2	C	772	Cast iron steam pipe and valves for 20" low pressure cylinder	18 Mar 1889		7' 0" compound passenger engine	
2	C	792	Cast steel motion plate	3 Oct 1890		5'6" & 6'6" Four wheel coupled passenger engines	
2	C	794	Cast iron footplate	25 Nov 1874	15 May 1889	6'6" Four wheel coupled passenger engines	
2	C	795	Standard internal chimney	25 Mar 1889		Locomotive engines	
2	C	810	Details of reversing valve on 20" low pressure cylinder	5 April 1889		7'0" Compound passenger engine	
2	C	823	No 2 portable gas reservoir	29 Jan 1918			
2	C	829	Arrangement for adjusting springs for radial wheels 42-ft carriages	17 Apr 1889			

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2	C	834		Spring and tie rod brackets for 42-ft carriage frame	17 Apr 1889			
2	C	845		Arrangement of balance weights	1 May 1889		6'0" Four wheel coupled passenger engine (Rebuilt)	
2	C	849		Standard regulator valve on smokebox tube plate	21 May 1925		Standard	
2	C	880		Arrangement of brake levers & gear	18 May 1889		6'0" Four wheel coupled passenger engine (Rebuilt)	
2	C	886		Panel plates	25 May 1889		6'0" 4-wheeled coupled passenger engine (rebuilt)	
2	C	917		Automatic vacuum brake air-pump 5in x 24in	28 Oct 1898	3 Nov 1937	6'6" 4-wh coupled straight link, 6ft 4-wh coupled rebuild, 5ft 6in 4-wh coupled side tank	
2	C	929		Details of water gauge fittings for locomotives	4 Jun 1920			Used for a number of locomotive classes
2	C	937		Side tank	29 Jun 1889		4'3" coal engine	
2	C	946		Standard steam jet blow pipe for locomotives	19 July 1889			32 1/16in holes for 4ft 6in side tank engines working on Metropolitan District line
2	C	972		List of pins & studs	31 Jul 1889	20 Jun 1892	6'6" Straight link rebuilt passenger engine	
2	C	974		List of special & standard bolts	31 Jul 1889		6'6" Straight link rebuilt passenger engine	
3	C	1000		Arrangement of leading sandbox gear and details	16 May 1887		4'6" side tank compound passenger engine	
3	C	1027		Portable oil tank for Wolverton	2 Apr 1921			
3	C	1072		Special for engine working at the steel furnaces	1 Oct 1923		2'6" shunting engine	Also numbered H304
3	C	1080		Detail of standard hydraulic buffers - FW Webb's system	8 Nov 1889			
3	C	1081		30-ton twin-boiler trolley	7 Apr 1906			

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3	C	1127		Low-pressure crank axle	17 Dec 1889	5 Nov 1891	4'6" side tank compound passenger engine	Cancelled and replaced by tracing no. 3373
3	C	1186		Lists of special and standard bolts	13 Jan 1890		6'0" 4-wheeled coupled passenger engine (rebuilt)	
3	C	1188		Arrangement of balance weight for wheels	30 Jan 1890		DX goods engine	
3	C	1192		List of pins and studs	30 Jan 1890	20 Jun 1892	6'0" 4-wheeled coupled passenger engine (rebuilt)	
3	C	1205		Cock for automatic vacuum brake	8 Feb 1890	2 Sep 1920		Alterations for tank engines fitted with Duplex vacuum gauge & release valve "M" dated 2 Sep 1920
3	C	1232		Automatic vacuum brake, elbows and bleeding end	14 Jun 1915		21 classes of engine	
3	C	1247		Details of glands and bushes for high-pressure and low-pressure cylinders	6 Mar 1890		7' compound passenger engine	
3	C	1315		Details of stay plate	5 Feb 1887	16 Apr 1890	5'0" Compound goods tank engine	Also for 5'0" side tank passenger engines. Altered in red 16.4.90
3	C	1340		Lubricator for regulator valve in smokebox	1 Jul 1904		4'6" & 5'6" Four wheeled coupled side tank. 6'0" & 6'6" Four wheel coupled pass. engines S/L	Also for high pressure steam pipes of 6'0" & 7'0" compound engines
3	C	1349		Standard connection for feed pipes between engine & tender	30 Dec 1907			
3	C	1349		Connection for feed pipe between engine & tender	30 Nov 1900			Part copy
3	C	1372		Covering plates	none		5'6" 4-wheel coupled side tank passenger engine	
3	C	1374		Frame plates	13 Mar 1845	19 Dec 1946	5'6" side tank passenger engine	
3	C	1416		Automatic vacuum brake - detail of ejector	30 Jan 1907	10 May 1912	This drawing used on 26 classes	After 20 May 1912 this ejector to be used only on engines not fitted with air pump
3	C	1429		Smokebox	5 Jul 1890		6 Wheel coupled coal engine	

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3	C	1438	Auto vacuum brake	11 Jul 1890		DX engines (Rebuilt)	
3	C	1443	Spanner for glass gauge nut for Wilson's lubricator. Also spanner for gland nuts of vacuum pump	none			Drawn in the LMS drawing office, Crewe
3	C	1450	Boiler	9 Jul 1890	17 Jun 1912	4'6" Four wheel coupled side tank	Later dates refer to minor alterations
3	C	1451	Coupling rods	Jan 1887	23 Nov 1894	5'0" Compound side tank goods engine	
3	C	1461	Boiler	7 Feb 1890	28 Jun 1905	6'0" Rebuilt & 6'6" straight link passenger engines	
3	C	1462	General arrangement of auto vacuum brake	12 Jul 1890		4'0" Shunting engine	
3	C	1477	Detail of smokebox with internal chimney	26 Jul 1890		5'0" DX 6 wheel coupled engine	
3	C	1480	Boiler	9 Jul 1890	28 Jun 1905	18" Goods engine	Alterations on drawing for engines fitted with piston valves
3	C	1492	Elbows for exhaust pipes - automatic vacuum brake	29 Jun 1912		35 classes of engine	
4	C	1505	Automatic vacuum brake - standard swan necks	none		4'3" six wheel coupled coal engine (for overseas - Egypt)	Cast iron, used on back of tender
4	C	1520	Details of hinges for smokebox door	8 Jun 1910		DX engines, also used for special tank engines	
4	C	1575	General arrangement of ashpan	4 Mar 1887		5' compound goods tank engine	Adapted, also used on 5'6" side tank passenger engines
4	C	1576	Coupling rods	15 Jul 1886		18" goods engine	
4	C	1757	Automatic vacuum brake, double-back valves B and B2	16 Apr 1915		15 classes of engine	
4	C	1978	List of plates and bars, attachment to drawing 1978	none			
4	C	2003	Cylinders 17" x 24"	8 Dec 1890	23 Jul 1903	6'6", 6'0", 5'6" straight link pass. engines, 5'6" side tank goods engines	

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4	C	2229	Automatic vacuum brake double-back valves A and A1	18 Jan 1907		13 classes of engine	
4	C	2403	Cylinders 17" x 20"	4 Jun 1888	23 Jul 1903	4'6" 4-wheel coupled side tank engines	
4	C	2417	Cab	6 Feb 1891	26 Nov 1928	5'6" side tank passenger engine	
4	C	2424	General arrangement of injectors, back valve and new sanding gear	none		18" goods engine	
4	C	2455	Automatic vacuum brake, details of steam valves (stop and regulating)	21 Feb 1891	Jul 1912	Engines fitted with steam brake	For steam valve for engines fitted with vacuum brake see drawings 18286
4	C	2522	Automatic vacuum brake, detail of steam brake and air valve	19 Mar 1891	Jun 1912	Engines fitted with steam brake	This valve not used for engines fitted with vacuum brake, see drawing no 18283
4	C	2578	Frame	26 Oct 1904	6 Aug 1924	4'3" six-wheel coupled special tank engine	
4	C	2615	Automatic vacuum brake, diagram of air pumps for various classes of engine	none		9 classes of engine	
4	C	2636	Detail of high-pressure cylinder covers and piston	12 May 1891		7' compound passenger engine, 8-wheeled	Drawing used also for 6' compound 8-wheeled
4	C	2815	Diagrams of boilers for goods engines	28 May 1891		Goods engines	
4	C	2823	Sand gear	9 Jan 1908	4 Dec 1934	5'6" side tank passenger engine	Bottom of cone altered, see drawing C19913
4	C	2858	Boiler	15 Jun 1891	29 Jun 1905	7'0" 8-wheeled compound passenger engine	Also used for 6'0" 8-wheeled compound engines
4	C	2889	Detail of valve saddle for high-pressure cylinder	25 Jun 1891		7'0" 8-wheeled compound passenger engine	
4	C	2960	General arrangement of automatic vacuum brake	8 Nov 1890	13 Sep 1920	4'3" straight link coal engine	
5	C	3066	Automatic vacuum brake - cast iron box on cab for connection to air and steam valves	25 Aug 1891	Jun 1912	General	
5	C	3168	General arrangement of automatic vacuum brake	22 Oct 1891		6'6" compound passenger engine	

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5	C	3169		General arrangement of auto vacuum brake gear - elevation	29 Oct 1890		5'6" side tank passenger engine	
5	C	3170		General arrangement of auto vacuum brake gear - end views	29 Oct 1890		5'6" side tank passenger engine	
5	C	3179		General arrangement of auto vacuum brake	2 Sep 1891		6'0" 4-wheeled coupled straight link passr. engine, rebuilt	
5	C	3186		Vacuum brake, driver's brake valve	30 Oct 1882		No class specified	
5	C	3189		Arrangement of doors at front end of repairing shop also offices, for Rugby	28 Aug 1891		Building	
5	C	3298		Tender axle box for journal 4 1/8" x 8"	24 Sep 1900	28 Jan 1914	Tenders - no type specified	
5	C	3335		Steam brake - details of cylinder and pull rods	8 Mar 1899	Jun 1912	17 classes of engine	
5	C	3343		Detail of cast iron balanced wheels	23 Oct 1891		4'0" shunting engine	
5	C	3360		General arrangement of auto vacuum brake	25 Jun 1890		6'6" 4-wheeled coupled straight link passenger engine	
5	C	3394		Boiler	25 May 1908		4'0" 4-wheeled shunting engine	
5	C	3511		Straight link valve motion for locomotive engines	12 Dec 1900		6'6" and 6'0", 4-wheel coupled passr. and 5'6" side tank	
5	C	3585		Wheel turntable	3 Dec 1913		Works fitting	
5	C	3627		Double vacuum brake sack	14 Feb 1890		Probably a standard fitting - no class quoted	
5	C	3641		Arrangement of steam automatic vacuum brake	3 Dec 1891		"Cornwall"	
5	C	3645		Casing over steam chest	18 May 1887		4'6" compound side tank engine	
5	C	3748		Standard radial axle-box (12" journal), F.W. Webb's Patent	16 Jan 1892		4 classes of engine	
6	C	4103		Cylinders	28 Jun 1886	25 Oct 1909	18" goods engine	



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6	C	4171	Detail of centre bearing	21 Dec 1910	1 Oct 1942	18" goods engine	
6	C	4177	Step and keep for centre bearing	13 Apr 1920		George V class	
6	C	4241	Details of boiler for steam tug - Shropshire Union Canal Company	6 Feb 1974		Tug boat	Two boilers required
6	C	4243	Boiler for small tug boat - Shropshire Union Canal Company	19 Jan 1880		Tug boat	
6	C	4260	Leading hornblock	31 Dec 1908	19 Dec 1946	4'3" 6-wheeled coupled coal engine	Hornblock bolts replaced by cold-turned rivets in 1946
6	C	4261	Driving hornblock	31 Dec 1908	26 Sep 1946	4'3" 6-wheeled coupled coal engine	Hornblock bolts replaced by cold-turned rivets in 1946
6	C	4262	Trailing hornblock	31 Dec 1908	19 Dec 1946	4'3" 6-wheeled coupled coal engine	Hornblock bolts replaced by cold-turned rivets
6	C	4525	Arrgt. of pipes for exhausting steam from drivers' valve & steam brake cyl. into ashpan	11 Mar 1892		No class specified	
6	C	4687	Position of carrier for keeping longitudinal stay of the lead plug	7 Mar 1892		No class specified	
6	C	4690	Leading driving and trailing axle boxes	18 Dec 1930	26 Jan 1944	4'3" 6-wheeled coupled coal engine	Used for six other classes
6	C	4826	Details of piston and cylinder covers	22 Dec 1908		4'3" 8-coupled coal engine	
7	C	5016	High pressure valve buckle and crosshead	4 May 1887		5'6" compound passenger tank engine	
7	C	5053	Details of frame plates	3 Feb 1927	19 Dec 1946	4'3" side tank coal engine	Bolts replaced by cold-turned rivets in 1946
7	C	5108	Foundation for spring buckle machine	24 July 1871			
7	C	5109	Hydraulic arrangement for lifting core store doors - new foundry steel works	10 Nov 1881			
7	C	5134	Equaliser for hydraulic machinery	15 Oct 1871			
7	C	5167	General arrangement of auto vacuum brake - elevation	20 Sep 1890		4'6" 4-wheeled coupled, eight wheeled side tank engine	

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7	C	5169		General arrangement of auto vacuum brake - end views	20 Sep 1890		4'6" 4-wheeled coupled, eight wheeled side tank engine	
7	C	5227		Platform and framing for hoist, new iron foundry	28 May 1867			
7	C	5270		Slide valve and buckle	30 Sep 1930		4'6" 4-wheeled coupled side tank engine	
7	C	5293		Exhaust pipes between steam brake cylinder, driver's brake valve and ashpan	26 May 1892	9 June 1893	5'6" 6-wheeled and 4'6" 8-wheeled side tank passenger engines	
7	C	5380		Cast steel wheels	24 Jan 1887	28 Apr 1892	5'0" compound goods tank engine	
7	C	5440		General arrangement of automatic vacuum brake	7 May 1892		18" express goods engine	
7	C	5599		General arrangement and details of spring gear	20 Sep 1920		4'3" 8-wheeled coupled coal engine	Also used for 4'3" 4-cylinder compound coal engine
7	C	5742		Trailing spring	12 Nov 1907		4'3" 8-wheeled coupled coal engine	
7	C	5827		Pumping engine for Llandovery station	1 Aug 1899	10 Dec 1904	Pumping engine	Reference to Holyhead, Hednesford and Leighton 1871
7	C	5861		Detail of ashpan	No date - <1918		4'3" 4-cylinder compound coal engine	
7	C	5861		Revised arrangement of carrying firebars - see 'other information' column	18 Nov 1918		4'3" 8-coupled coal engine (C, C1, B and E classes)	This drawing is a 'Rider' to 5861
7	C	5908		List of pins and studs	13 Jul 1892		5'0" 6-wheeled coupled goods engine	
7	C	5909		List of special and standard bolts	13 Jul 1892		5'0" 6-wheeled coupled goods engine	
7	C	5957		8mm restarting injector	2 Aug 1892		Standard	
7	C	5974		Details of valve motion	20 Oct 1908		4'3" 8-coupled coal engine	

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7	C	5999		Details of reversing shaft	22 Jul 1904		4'3" & 5' 4-cyl. compound and 4'3" 8-coupled coal engine	
8	C	6025		Details of reversing gear	27 Aug 1907		4'3" 6-coupled coal engine	
8	C	6052		List of special and standard bolts	22 Jul 1892		5'6" side tank passenger engine	
8	C	6057		Diagram sheet of ashpans	13 Jul 1892		All classes of engine	
8	C	6111		Details of high pressure connecting rod	13 Aug 1920		4'3" 4-cylinder compound coal engine	
8	C	6127		General arrangement of oil box for leading axle	8 Mar 1893		6'6" straight link engine and 6'0" rebuilt engine	
8	C	6132		Detail of connecting rod	14 May 1898		18" goods engine and six other classes	For details of large end see low pressure rod for 7'0" compound engine - see tracing 6120
8	C	6164		Boiler and mountings for "Rocket"	16 Sep 1892		"Rocket"	
8	C	6175		Diagram sheet of axleboxes	8 Jan 1907		Many classes of engine	
8	C	6246		Slide valve and buckle	8 Mar 1922		5'6" 4-wheeled coupled passenger engine	
8	C	6273		List of pins and studs	1 Oct 1892		5'6" side tank passenger engine	
8	C	6648		Details of side tanks and bunker	4 Feb 1927		4'3" 6-wheeled coupled side tank engine	
8	C	6726		Low pressure cylinder, 30" diameter 24" stroke	8 Feb 1893	21 Jan 1897	4'3" compound coal engine	
8	C	6733		Driving axlebox	5 Oct 1911	23 Nov 1944	6'6" straight link passenger engine - see other information	Driving and trailing wheels for 6'6" and 6'0" 4-coupled passr. engine (straight link) & 5'6" 4-coupled side tank
8	C	6736		Cylinders for 4 1/4" dia x 6" stroke for tramway engine and locomotive crane	30 May 1922		Tramway engine and locomotive crane	
8	C	6746		Detail of high pressure crosshead	20 Sep 1920		4'3" 4-cylinder compound coal engine	
9	C	6782		Driving and trailing axlebox	6 Oct 1911	22 Nov 1944	4' 6" side tank 6- and 8-wheeled passenger engines	

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9	C	6791	Motion details for dwarf locomotive, Crewe Works 22 January 1862	30 May 1922		Dwarf locomotive for shunting	
9	C	6792	Details of castings for spring gear	27 Nov 1906	21 Dec 1943	4' 3" 8-wheeled coupled coal engine and 8 other engines	
9	C	6827	Diagram sheet of sand valve nozzles	3 Feb 1926		Many engines - almost a standard fitting	
9	C	6854	Detail of coupling rods	10 Aug 1920		4' 3" 4 cylinder compound coal engine	
9	C	6858	Details of slide valve and buckle	7 Apr 1927		5' 0" six-coupled goods engine (special DX) and 6 other engines	
9	C	6948	General arrangement of whistle stand - cast iron	4 Jun 1920		13 different engines	retracing of earlier 6948 drawing
9	C	6948	General arrangement of whistle stand	11 Mar 1907		14 different engines	
9	C	6952	Details of high pressure slide bars and piston rods	20 Sep 1920		4' 3" four cylinder compound coal engine	
9	C	7002	Details of steel castings for steam brake	18 May 1893		4' 3" 8-wheeled compound coal engine	
9	C	7005	Auto vacuum brake - details of unions used in connection with air & steam valves etc.	29 Nov 1911		Standard fittings	
9	C	7020	Standard 9mm re-starting injector	5 Dec 1901		Many engines	
9	C	7031	Details of covers and casings for low pressure cylinder	12 May 1893		4' 3" 8-wheeled compound coal engine	
9	C	7040	Details of sandboxes and brackets	17 May 1893		4' 3" compound coal engine	
9	C	7042	Details of steam pipes	17 May 1893		4' 3" compound coal engine	
9	C	7050	General arrangement of steam brake gear	11 Dec 1923		4' 3" 8-coupled coal engines	
9	C	7051	Details of steam brake gear	19 May 1893		4' 3" 8-wheeled compound coal engine	
10	C	7107	Dip for water pick-up apparatus	26 Oct 1937		Not specified	

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10	C	7125	Arrangement of pipes for exhausting steam from steam brake cylinder and driver's valve into ashpan	9 Jun 1893		Not specified	
10	C	7129	Details of castings for cylinder cock gear	14 Jun 1893	16 Feb 1897	4' 3" compound coal engine	
10	C	7130	Arrangement of high pressure valve motion	14 Jun 1893	19 Aug 1897	4' 3" compound coal engine	
10	C	7188	Arrangement of cylinder cock gear	11 Jul 1893	16 Feb 1897	4' 3" compound coal engine	
10	C	7223	Arrangement of slide bars	6 Jun 1924		6-wheeled coupled (DX) goods engines	
10	C	7241	General arrangement of hopper	17 Sep 1896		4' 3" compound coal engine	
10	C	7460	Standard piston rod and crosshead	14 May 1924	4 Aug 1940	5' 0" 6-wheeled coupled goods engine (special DX) & 11 other engines	
10	C	7481	Hand reversing gear	27 Aug 1858	7 Dec 1894	"Cornwall"	
10	C	7482	Reversing shaft and lifting link	27 Aug 1858	5 Dec 1894	"Cornwall"	
10	C	7483	Link and valve spindle guide	27 Aug 1858	28 May 1861	"Cornwall"	
10	C	7527	2000-gallon tank	16 Oct 1893	13 Apr 1916	Standard tender	
10	C	7586	Sketches of iron church, Earle Street, Crewe, transferred to Stewart Street 1912	26 Oct 1893	1912	Iron church	
10	C	7629	Artificial leg	16 Oct 1885		Artificial leg	Two off - no statement as to who they were for
10	C	7754	Buffer for engines and tenders	1 Nov 1893	29 Dec 1922	Standard fitting	Retracing of earlier drawing
10	C	7812	Details of standard blow off cocks	22 Oct 1901		Standard fitting	
10	C	7853	Cylinder cover and motion for tramway engine, Crewe Works 20 December 1876	30 May 1922		Tramway locomotive, outside cylinders	
10	C	7860	Details of hornblock and axlebox	14 Nov 1923		1' 4" 4-coupled tramway engine (18" gauge - outside cylinders)	

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10	C	7861	Valve motion and spectacle plate for dwarf engine, Crewe Works 22 January 1862	30 May 1922		Dwarf locomotive for shunting	
10	C	7885	General arrangement and details of high and low pressure cylinder cock gear	2 Jul 1885		4' 6" side tank compound engine	
10	C	7886	Details of ash pan	26 Jun 1885		4' 6" compound side tank engine	
10	C	7904	Details of the pick up	27 May 1887		5' 6" compound passenger tank engine	
11	C	8001	Details of regulator valve	26 Mar 1909		2' 6" 4-coupled shunting engine	
11	C	8006	General arrangement and details of trailing spring gear	none shown		5' 0" compound goods tank engine	
11	C	8011	Details of spring gear	28 Jun 1917	31 Dec 1918	4' 6" 4-coupled side tank engine, 2-4-2 type	
11	C	8015	High pressure valve motion	19 Mar 1885	7 Dec 1894	4' 6" compound passenger engine	
11	C	8016	Details of low pressure valve motion	21 Mar 1885	11 Dec 1894	4' 6" compound passenger engine	
11	C	8027	Drain valve for vacuum pipes, car heating & steam brake cylinder	9 Apr 1927		Standard fitting	
11	C	8027	Drain valve for vacuum pipes and steam brake cylinder	17 Aug 1942		Standard fitting	
11	C	8080	Detail of steam chest cover	28 Jun 1920		5' 0" DX goods engine and 6 other engines	
11	C	8081	Details of cast brass pipes	6 May 1885		4' 6" compound side tank engine (same as drawing 8082)	
11	C	8082	High pressure cylinders	17 Jan 1885		4' 6" 4-wheeled coupled, 8 wheeled tank engine (2-4-2)	
12	C	8117	Detail of eccentric and eccentric rod	28 Mar 1924		Unknown engine and 3 types of 6-coupled engine	
12	C	8148	Standard joints	7/11 Nov 1893		Standard	All joints india rubber except where otherwise stated

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
12	C	8155		Details of 12" journal for radial axlebox	16 Feb 1914		5' 6" 8-wheeled side tank & 5' 0" 6-wheeled coupled side tank	
12	C	8210		Cover plates for pipes through footplate	18 Mar 1905		Many locomotives	
12	C	8249		Reversing gear for tramway engine, Crewe Works Oct 1875	30 May 1922		Tramway loco	Reference on drawing to "axle same as for 'Billy' "
12	C	8355		Smoke box	19 Jun 1885	4 May 1887	4' 6" side tank compound engine	
12	C	8359		General arrangement of lagging for high pressure cylinders	24 Aug 1885		4' 6" side tank compound engine	
12	C	8360		Front cover plates	24 Jun 1885		4' 6" side tank compound engine	
12	C	8363		Front and trailing buffer plates	15 Feb 1887	21 Mar 1895	5' 0" compound goods tank engine	
12	C	8364		Detail of tank stay bracket to boiler	2 Mar 1887		5' 0" compound goods tank engine	
12	C	8413		Smoke box plates	8 or 9 Mar 1887		5' 6" compound goods tank engine	
12	C	8443		Leading and trailing drawbars	13 Dec 1893	9 Aug 1910	Several side tank engines	
12	C	8456		Lagging plate for low pressure cylinder	14 Aug 1885		4' 6" side tank compound engine	
12	C	8498		General arrangement of smokebox	27 Feb 1894		4' 6" side tank passenger engine	
12	C	8582		Stephenson's valve motion	12 Feb 1927		5' 0" and 4' 3" 6-wheeled coupled engines	Includes 5' 0" engine for Dundalk and Greenore Rly
12	C	8582		Valve motion	12 Dec 1900		6-wheeled coupled goods engine DX	Same drawing as other of same number
12	C	8707		Trailing end tank	21 Jun 1922		4' 6" 4-wheels, 8-wheeled coupled side tank (2-4-2)	
12	C	8756		Diagram sheet of drawbars used for locomotives	21 Feb 1908 (?)		Many passenger and goods engines	Date unclear
12	C	8756		Diagram sheet of drawbars used for locomotives	21 Jun 1916		Many passenger and goods engines	Part copy

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
13	C	8779		Steam brake	20 Aug 1885	5 Sep 1918	Rebuilt DX engines	
12	C	8807		Diagram sheet of slide valves for locomotives	13 May 1907		Many passenger and goods engines	Some fitted with piston valves and some with flat valves
12	C	8831		Detail of valve motion	5 Dec 1864	19 May 1896	7' 6" wheel for passenger engine D.D. (?)	Later used for 4' 3" 3-cylinder compound coal engine 19 May 1896
12	C	8949		Boiler	30 Apr 1907	20 Mar 1939	4' 3" special tank	Version also used on Dundalk and Greenore Railway, Ireland
12	C	8972		Arrangement of condensing valves and exhaust pipes in smokebox	12 Jun 1894		4' 6" 8-wheeled side tank passenger engine	
13	C	9024		Lubricators & connections for locomotives	13 Jun 1894	19 Aug 1915		
13	C	9071		Steam valve for injector	27 Aug 1920		Special tank engine	
13	C	9118		Standard eccentric & eccentric rods	2 Jul 1878	13 Jan 1931	6' 6" straight link, 6'0 rebuild, 5'6 side tank engines	
13	C	9118		Standard eccentric & eccentric rods	19 Mar 1922		6' 6" Straight link, 6' 0 rebuilt, 5'6 side tank engines	
13	C	9256		Diagram of locomotive springs	25 Jul 1911			
13	C	9257		Diagram sheet of tender, trolley & misc. springs	13 Oct 1904			
13	C	9276		Diagram of alterations to end of slide bars & motion plates to suit strengthened connecting rods	7 Aug 1894		Eight classes of locomotives	
13	C	9290		Steam valve for re-starting injector	29 Aug 1894		Various	
13	C	9421		Details of cast iron release valves for auto vacuum brake	12 Feb 1920		Various classes	
13	C	9489		Details of trailing hornblock	1 Oct 1894	18 May 1898	18 inch goods	
13	C	9641		2' 9" Wheel centre	26 Apr 1939	29 Mar 1940	Eleven classes of locomotives	
13	C	9661		High pressure crank pin	29 Apr 1885		4' 6" eight wheeled compound passenger engine	



Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
13	C	9662	Crank pins	24 Jan 1887	29 Nov 1894	5ft compound goods tank engines	
13	C	9675	Standard dome for locomotive boilers	10 Jun 1915		Strandard	
13	C	9731	Standard tyre sections	19 Feb 1921		Locomotives & tenders	
13	C	9732	Cylinders 14 inch Dia. X 20 inch stroke	13 Sep 1894		4ft shunting engine	
13	C	9795	General arrangement & details of steam reducing valve for carriage heating apparatus	30 Jan 1908		7 Classes of locomotive	
13	C	9801	Eccentric & valve rods for locomotives	20 Oct 1894		General	
13	C	9928	Dust plates for axle boxes	4 Dec 1894		Mr Webb's coupe	
13	C	9933	Reversing shaft bracket on frame to be used after 11 April 1921	11 Apr 1921	18 Aug 1925	18 inch goods engine & 7' 0" four coupled passenger engine	
14	C	10053	Bonded stores, Wigan, 30 cwt hand crane & details of top casting	9 Jan 1895		Crane at Wigan	
14	C	10097	Carriage heating apparatus - details of hose couplings between engine and tender	4 Mar 1896		Standard fitting	
14	C	10098	Heating apparatus for carriages - arrangement of pipes and valves for tenders	5 Feb 1896		2000- and 2500-gallon tenders	
14	C	10117	Diagram of trolleys	22 Oct 1891		Special wagons	
14	C	10118	Tender	26 Jun 1894		7' 0" compound engine - 8 wheeled	
14	C	10130	Boiler	28 May 1891		2' 6" 4-wheels coupled shunting engine	
14	C	10180	Details of valve motion	22 Dec 1922		5' 0" coupled goods engine (18" cylinders)	
14	C	10310	Smokebox lubricator - details of waste water cup	29 Jan 1904		Many classes of compound and non-compound engine	
14	C	10337	General arrangement and details of screw reversing gear	19 Mar 1895		8' 6" passenger engine "Cornwall"	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
14	C	10339	General arrangement of screw reversing gear	22 Mar 1895		8' 6" passenger engine "Cornwall"	
14	C	10351	Diagram of standard buffer planks	12 Dec 1894		Standard fitting	
14	C	10453	Detail of high pressure eccentrics	21 Mar 1895		7' 6" passr. rebuilt and 7'0" compound passr. engine - 8 wheeled	
14	C	10517	Standard fire door for locomotives - general arrangement and detail of forgings	22 Feb 1900		Standard fitting	
14	C	10564	Arrangement of headlight brackets for engines	10 May 1895		Engines running over the MS&L	
14	C	10618	Headlight brackets for engines - diagram shewing standard position on buffer planks	14 May 1895		Standard fitting	Added for engines running over the MS&L
14	C	10758	Glass water gauge with automatic valves and shut-off cocks	12 Jul 1895		Standard fitting	
14	C	10817	Diagram of cylinder and steam chest cocks	19 Jun 1895		Many classes	
14	C	10851	Bearing springs for locomotive engines	before 1943		10 classes	Spring types W9, W13, E1
14	C	10851	Spring for locomotive engines - reference letter "W9"	9 Sep 1918	19 Nov 1943	6 classes	Part copy. "W9" refers to the type of spring.
14	C	10852	9-, 10- and 11-mm injector - details of clackbox and standpipes	30 Mar 1943		Standard fitting	
14	C	10877	Standard locomotive water gauge - arrangement and details of shut-off cocks & gear	7 Aug 1985		Standard fitting	
14	C	10927	Diagram shewing position of oil-boxes on engines with metallic packing	12 Jun 1895	12 Dec 1921	10 classes	
14	C	10935	Diagram sheet of re-starting injectors and stand pipes	14 May 1904		Many classes	
15	C	11185	Standard oil boxes and cups	31 Jul 1915		Standard fitting	
15	C	11185 B	List of standard oil boxes and cups for locomotives	4 Mar 1913		25 classes	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
15	C	11221		Carriage heating apparatus - arrangement of valves and pipes	17 Dec 1895		6' 6" passenger straight link engine	
15	C	11245		Standard oil boxes and cups	16 Jun 1915	4 Dec 1935	Standard fitting	
15	C	11321		Plan and elevations, new schools Pedley Street Crewe	12 Feb 1985		Pedley Street School, Crewe	
15	C	11344		Radial axle box 6 1/2" x 14" journal	20 Sep 1920		4' 3" 4-cylinder compound engine	
15	C	11396		Metallic packing for piston rods	13 Jun 1904		6 classes	
15	C	11402		Details of 14" journals for radial axle box	none		4' 3" 4-cylinder compound engine	
15	C	11452		Arrangement of hydraulic press for high pressure crosshead	15 Apr 1896		4' 3" compound coal engine	
15	C	11456		Diagram of asbestos felt lagging sheets for locomotive boilers	13 Dec 1909		Many classes	
15	C	11492		Detail of driving axle	25 Apr 1896		8' 6" passenger engine "Cornwall"	
15	C	11538		Details of outside covering plates	13 Mar 1945		4' 3" side tank coal engine	
15	C	11606		Details of spark arrestor	10 Mar 1925		4' 3" 6-coupled side tank, saddle tank and special tank engines	
15	C	11623		Frame plates	3 Jun 1896		4' 3" 4-wheels coupled shunting engine	
15	C	11647		17" piston, cylinder cover and ends	12 Jun 1896	18 Jul 1935	6-wheeled coupled goods engine DX	8 classes listed
15	C	11649		Standard radial axlebox	18 Jun 1896		Standard fitting	4 classes listed
15	C	11652		Details of cast iron wheels	6 Aug 1896		4' 3" 6-wheels coupled coal engine and 4 other classes	
15	C	11657		Details of castings for leading sand gear	15 Aug 1896		4' 3" 6-wheels coupled coal engine and 4'3" side tank coal engine	
15	C	11663		Standard equilibrium regulator valve	1 Jul 1925		13 classes of goods and passenger engine	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
15	C	11666		Standard crosshead	18 Sep 1896		6-wheels coupled goods engine (DX)	Also used for 13 other classes
15	C	11669		Slide valve and buckle	4 Jun 1924		6-wheels coupled goods engine (DX)	Also used for 6 other classes
15	C	11684		Standard fire door for locomotives - details of castings	22 Feb 1909		Standard fitting	
15	C	11685		Duplex safety valve	31 Dec 1921		Standard fitting	
15	C	11698		Standard lubricator for cylinders fixed on smokebox	4 Aug 1904		Standard fitting	
16	C	11707		Standard firebar carriers	28 Apr 1915	7 Nov 1918	Standard fitting	
16	C	11715		Steadying bracket for reversing screw plate	26 Jun 1896		4' 3" compound coal engine	Separate in roll, with pencil tracing of same. Rolled together with other 11715.
16	C	11715		Steadying bracket for reversing screw plate	26 Jun 1896		4' 3" compound coal engine	Separate in roll, pencil tracing. Rolled together with other 11715.
16	C	11779		Automatic vacuum brake - arrangement of swan-necks & stop brackets for leading ends of engines	26 Jun 1896		7' 0" 6- and 8-wheeled compd. passr. engine, 5' 6" compd. side tank & 5' 6" side tank passr. engi&	
16	C	11895		Details of plates for smokebox	2 Sep 1896	9 Jul 1903	4' 3" 4-wheels coupled shunting engine	
16	C	12042		Coupling rods	21 Oct 1896	28 May 1943	4' 3" 6-wheels coupled coal engine	
16	C	12085		Tool box	20 Mar 1909		Standard tenders	
16	C	12122		Details for tool box	20 Mar 1909		Standard tenders	
16	C	12161		Arrangement of rubbing plates for trailing spring pillars	17 Dec 1896		4' 6", 5' 6" and 4' 3" side tank engines	
16	C	12170 /1		Diagram sheet of hornblocks - sheet 1	17 Apr 1895	24 Oct 1946	12 classes of passenger engine	
16	C	12170 /2		Diagram sheet of hornblocks - sheet 2	16 Jun 1902	24 Oct 1946	5 classes of passenger engine	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
16	C	12171 /2	Diagram sheet of hornblocks	25 Nov 1905	24 Oct 1946	6 classes of goods engine	
16	C	12171 /3	Diagram sheet of hornblocks	18 Jan 1897	23 Oct 1946	Goods engines	
16	C	12235	Detail of high pressure cylinder (15" dia x 24" stroke)	15 Jan 1897	24 Sep 1917	4' 3" compound coal engine	
16	C	12266	Standard cast steel wheel with standard tyre for tender	26 May 1919		3000-gallon tender	
16	C	12480	Details of axles and crank pins	1 May 1908		7' 0" 4-coupled compound passenger engine	Also covers 5' 0" 6-coupled compound engine
16	C	12486	Detail of low pressure cylinder 19 1/2" x 24"	29 Apr 1897		7' 0" 4-wheels coupled passenger engine	
16	C	12518	Details of piston rods	12 May 1897	23 Jan 1903	7' 0" 4-wheels coupled passenger engine	Also 4' 3" 8-coupled coal and 5' 0" 6-wheels coupled compound engine, both 4 cylinders. Not a duplicate of other drawing no. 12518
16	C	12518	Details of low pressure slide bars and piston rods	20 Sep 1920		4' 3" 4-cylinder compound coal engine	Not a duplicate of other drawing no. 12518
16	C	12519	Details of castings for radial truck	28 Apr 1898		7' 0" 4-wheels coupled compound passenger engine	Also covers 5' 0" 6-coupled compound engine
16	C	12520	Details of inside and outside slide bars	13 May 1897	5 Sep 1917	7' 0" 4-wheels coupled passenger engine compound and non-compound	
16	C	12540	Details of castings for smoke-box	15 May 1901		7' 0" 4-wheels coupled compound passenger engine (16" cylinders)	
16	C	12541	Details of hornblock, axlebox & pad for radial truck	18 May 1897		7' 0" 4-coupled compound and 9 other classes	
16	C	12545	General arrangement of carriage heating apparatus - end views	25 Jan 1896		5' 6" side tank passenger engine	
16	C	12546	General arrangement of carriage heating - elevation	25 Jan 1896		5' 6" side tank passenger engine	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
17	C	12550	Detail of lagging for boiler	19 May 1897	14 ? 1898	7'0" four wheel coupled passenger engine; compound & non-compound	
17	C	12555	Steps for outside footplate	10 May 1897	8 May 1908	7'0" four wheel coupled passenger engine: compound & non-compound	
17	C	12569	Details of crossheads, rocking levers & brackets for valve gear	20 Sep 1920		4'3" four cyl. compound coal engine	
17	C	12570	Details of forgings for radial truck	24 May 1905	10 Sep 1952	7'0" four wheel coupled compound passenger engine & 12 other classes	
17	C	12571	Details of cast iron casing for outside steam chest cover	25 May 1897		7'0" four wheel coupled passenger engine: compound & non-compound	
17	C	12579	Detail of low pressure slide valve & frame	26 May 1897	1 Mar 1898	7'0" four wheel coupled compound engine	
17	C	12594	Details of low pressure slide valve & buckle	28 May 1897	1 Mar 1898	7'0" four wheel coupled compound passenger engine	Further alteration dated 27 Jul 1898
17	C	12598	Detail of spring for radial truck	2 Jun 1905	2 Mar 1943		8 classes of engine
17	C	12598	Detail of spring for radial truck	31 May 1897		7'0" four wheel coupled passenger engine: compound & non-compound	Same number. as adjacent drawing but earlier date
17	C	12628	General arrangement of auto vacuum brake	4 Nov 1898		7'0" four wheel coupled compound passenger engine	
17	C	12661	Lifting valve for hydraulic cranes				
17	C	12668	Standard rolled sections	4 Dec 1906	12 Mar 1918		
17	C	12673	Detail of steam pipes	2 Jul 1897		7'0" four wheel coupled compound passenger engine	
17	C	12677	Standard leading wheels 3'9" dia. with 3" tyres	16 Apr 1915		10 classes of locomotives	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
17	C	12884	Detail of high pressure steam chest cocks fitted with automatic drainage valves	15 Oct 1897		4'3" compound coal engine	
17	C	12884	Details of high pressure & low pressure steam chest cocks	15 Oct 1897		4'3" compound coal engine	Original tracing
17	C	12886	Rocking pin bracket for high pressure motion	15 Oct 1897		4'3" compound coal engine	This bracket & pin to be used on engines fitted with flat slide valves only
17	C	12895	Details of smokebox hopper	8 Feb 1898		7'0" four wheel coupled compound passenger engine	
17	C	12934	Firebricks for locomotives	5 Nov 1897			
17	C	12986	Details of plates for standard tanks	16 Mar 1914			
17	C	12995	Detail of cylinders 18" Dia x 24" stroke fitted with piston valves	3 Dec 1897		5'0" six wheel coupled side tank engine	
18	C	13031	Details of valve liners and steam chest covers	3 Jan 1898		7' 0" four wheel coupled compound passenger engine	
18	C	13039	Details of crosshead for air pump piston rod and details of air pump	3 Jan 1898	6 Jul 1934	5' 0" six wheel coupled side tank engine	
18	C	13045	Standard crosshead for 3" piston rods	23 Mar 1921		5 classes	
18	C	13108	Detail of low pressure cylinders (20 1/2" diameter x 24" stroke)	8 Feb 1898		7' 0" four wheel coupled compound passenger engine	Also used for six other classes of engine
18	C	13153	Details of pistons, cylinder and steam chest cover	11 Mar 1898		7' 0" four wheel coupled compound passenger engine	
18	C	13172	General arrangement and details of brake gear	8 Nov 1904		5' 0" six wheel coupled side tank engine	
18	C	13268	Air pump and heating apparatus for carriages - elevation and plan	23 Apr 1898		4' 3" six wheel coupled coal side tank engine	
18	C	13269	Air pump and heating apparatus for carriages - end views	26 Apr 1898		4' 3" six wheel coupled coal side tank engine	
18	C	13292	Diagram of standard auto restarting injector - LNW Railway Company	none		Standard fitting	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
18	C	13358	Compensating buffer arrangement	10 Jun 1899		Carriage underframe 50' feet	
18	C	13386	Boiler with single plate barrel	17 May 1898	29 Mar 1939	18" goods engine	
18	C	13419 A	General arrangement of auto vacuum brake - end views	26 Jul 1898		5'0" six wheel coupled side tank engine	
18	C	13419	General arrangement of auto vacuum brake - elevation & plan	26 Jul 1898		5'0" six wheel side tank passenger engine	
18	C	13441	Detail of trailing axle box	28 Sep 1928	11 Feb 1944	6'6" four wheel coupled passenger engine. Classes: Geo.V,Precursor, 6' coupled side tank & 7' Renown	
18	C	13476	Carriage heating apparatus - elevation & plan	2 Aug 1898		4'6" eight wheel side tank passenger engine	
18	C	13476 A	Carriage heating apparatus - end views	2 Aug 1898		4'6" eight wheel side tank passenger engine	
18	C	13482	Detail & diagram of cast iron continuation of footboard	6 Aug 1909	23 May 1919	24 classes	
18	C	13488	Detail of cast iron chequered footplate	20 Aug 1898	24 Oct 1916	4'3" six wheel coupled coal engine	
18	C	13491	Diagram of webs for built up cranks	2 Feb 1907		27 classes	
18	C	13553	Boiler	21 Nov 1898	16 Jan 1911	7'0" four wheel coupled compound passenger engine	
18	C	13575	Arrangement of carriage heating apparatus	29 Oct 1898		5'0" special DX engine	
18	C	13598	Carriage heating apparatus	24 Nov 1898		18" express goods engine	
18	C	13615	Carriage heating apparatus	8 Dec 1898		7'0" four wheel coupled compound passenger engine	
18	C	13676	Cast steel wheels	11 Jul 1887	11 Mar 1892	18" goods engine	
18	C	13753	Standard tender axle box	24 Oct 1902	17 Jun 1935	2000 gall. Tender	



Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
18	C	13973	Diagram of bolts for slide bars fitted with castle nuts	18 Jul 1916			
19	C	14054	Details of high pressure steam chest covers and liners	20 Sep 1920		4' 3" four cylinder compound coal engine	
19	C	14296	Details of stay plate and brake cylinder	12 May 1900		5' 6" side tank passenger engine	Also 5' 0" 6-wheel coupled and 6' 0" 4-wheel coupled side tank engines
19	C	14298	Cylinder cock gear for engines with rectangular slide valve	26 May 1900	3 May 1910	5' 0" six wheel coupled side tank engine	
19	C	14505	Details of 6 1/2" piston valves with eccentric expansion rings	4 Oct 1900		5' 0" six wheel coupled side tank engine	
19	C	14510	Detail of 7" piston valves with eccentric expansion rings	4 Oct 1900		7' 0" four wheel coupled compound passenger engine	
19	C	14542	Steam brake cylinder detail of packing	12 Nov 1900		Standard fitting	
19	C	14544	Details of smokebox	13 Nov 1900		18" goods engine fitted with piston valves	
19	C	14565	Arrangement of 9mm restarting injectors	28 Nov 1900		5' 9" Metropolitan engine (rebuilt)	
19	C	14574	Detail of high pressure cylinders (16" diameter x 24" stroke)	4 Dec 1900		7' 0" four wheel coupled compound passenger engine	
19	C	14605	Details of wheels, axles, crank pins, etc.	20 Sep 1920		4' 3" four cylinder compound coal engine	
19	C	14659	Details of high pressure cylinder covers and piston	20 Sep 1920		4' 3" four cylinder compound coal engine	
19	C	14769	Arrangement and detail of reversing gear	11 October 192		4' 3" four cylinder compound coal engine	
19	C	14777	Details of spark arrester	4 Nov 1924		4' 3" four cylinder compound coal engine	Part copy
19	C	14779	Details of castings for hopper	28 May 1903		4' 3" four cylinder compound coal engine	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
19	C	14918		Iron door and frame leading from corridor to flat roof	5 Sep 1901		Mechanics' Institute, Carlisle	
19	C	14935		Diagram of smokebox door clips	none		28 classes of locomotive	
19	C	14943		Standard 20 ton coal wagon	17 Aug 1901		Standard 20 ton coal wagon	2 drawings of different parts of the same wagon with the same number
19	C	14943		Standard 20 ton coal wagon	14 Sep 1901		Standard 20 ton coal wagon	2 drawings of different parts of the same wagon with the same number
19	C	14951		Detail of low pressure motion plate	2 Oct 1901	13 Oct 1904	4' 3" four cylinder compound coal engine	
19	C	14954		Detail of steam brake gear	29 Sep 1920		4' 3" four cylinder compound coal engine	
19	C	14955		Details of castings for brake gear	7 Nov 1901	29 Jan 1926	4' 3" four cylinder compound coal engine	
19	C	14960		Detail of tank	20 Feb 1902	15 Jun 1936	Standard 2500 gallon tender	
19	C	14973		Details of hornblocks, tie rods, footsteps and brake shaft bracket	25 Feb 1902		Standard 2500 gallon tender	
19	C	14976		Detail of spring	9 Sep 1918	19 Nov 1943	Standard 2500 gallon tender	
20	C	15004		Diagram sheet of steel bushes	6 Jan 1932		Standard fitting for engines and tenders	
20	C	15019		Details of castings	14 Dec 1901	1 Oct 1942	4'3" four cylinder compound coal engine	
20	C	15020		Detail of boiler barrel ring and central stay between frames (steel castings)	14 Dec 1901		4'3" four cylinder compound coal engine	
20	C	15053		Details of firebars, brackets and carriers	4 Feb 1902	16 Sep 1903	4'3" four cylinder compound coal engine	
20	C	15061		Feedwater gear, whistle, blower, etc.	none		4'3" special tank engine	Also for the 5' 0" Greenore engine
20	C	15062		Details of smoke-box with internal chimney	7 Jan 1891		6' 6" straight link passenger engine	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
20	C	15065	Arrangement of drains for new shops	27 Jan 1902		Mechanics' Institute, Crewe	
20	C	15099	Motion plate	10 Feb 1902		4'6" six and eight wheel side tank engines	
20	C	15103	Detail of axlebox	21 Nov 1904	17 Jun 1935	Standard 2500 gallon tender	
20	C	15110	Details of knee plates, angles etc.	25 Feb 1902		4'3" four cylinder compound coal engine	
20	C	15131	General arrangement of hopper	24 Mar 1902		4'3" four cylinder compound coal engine	
20	C	15142	Detail of frame	26 Feb 1902	16 Jun 1936	Standard 2500 gallon tender	
20	C	15156	Standard axlebox lid for tenders	3 May 1920	8 Oct 1942	Standard fitting	
20	C	15175	Diagram showing position of lamp brackets on engines	16 Jun 1902		Standard fitting	
20	C	15182	Detail of castings for staying top of firebox with longitudinal bars	2 Jul 1902		4' 3" four cylinder compound coal engine	
20	C	15190	Arrangement and details of longitudinal roofing bars and links	7 Jun 1902	12 Jan 1910	4' 3" four cylinder compound coal engine	Also used for 7' 0" four wheel coupled compound passenger engine
20	C	15195	Details of roofing bars, brackets, slings and pins	20 Sep 1920		4' 3" four cylinder compound coal engine	
20	C	15210	Blast pipes for passenger engines - sheet no. 1	16 Jun 1902		9 classes	
20	C	15211	Blast pipes for goods engines - sheet no. 2	12 Jun 1920		7 classes	
20	C	15212	Blast pipes for passenger engines - sheet no. 2	11 Dec 1920		4 classes	
20	C	15213	Blast pipes for goods engines - sheet no. 1	16 Jun 1902		Standard fitting	
20	C	15256	Boiler fitted with longitudinal roofing bars	22 Jul 1902	22 Jul 1905	7' 0" four wheel coupled compound passenger engines - Alfred The Great and Renown classes	
20	C	15258	Diagram sheet of blastpipes	21 Aug 1911		Standard fitting	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
20	C	15263	Steam pipe flanges	30 Apr 1913		Standard fitting	
20	C	15403	Arrangement and details of damper under firebox	22 Sep 1902		7' 0" four wheel coupled compound passenger engine with large boiler	
20	C	15410	Detail of axleboxes (oil)	7 Oct 1902		20 ton coal wagon	
20	C	15464	Details of core drying store (south bay)	27 Sep 1906		Extension of steel foundry	
20	C	15480	Diagram of pillars, hooks and link for spring gear	17 Jun 1902		Standard fitting	
20	C	15485	Diagram of protection plates for drivers	23 Dec 1902		Standard fitting	
21	C	15503	Standard T pipe for 4" steam pipes	9 Mar 1931		Five classes of locomotive	
21	C	15533	Details of valve motion	2 Jan 1920		7' four wheel coupled compound passenger engine & 4'3" four cyl. compound coal engine	
21	C	15539	Details of roofing bars, stay bolts etc: for Belpaire boiler with copper tube plate	25 Jan 1903	28 Oct 1903		
21	C	15546`	Diagram of connecting rods for locomotives	20 Mar 1903		General	
21	C	15606	Details of steam brake gear	25 May 1903		5'6" side tank passenger engine	
21	C	15622	Details of high pressure Joy's motion	10 Jul 1903		7' four wheel coupled compound passenger engine	
21	C	15623	Detail of high pressure crosshead for engines with high pressure Joy's gear	13 Jul 1903		7' four wheel coupled compound passenger engine	
21	C	15624	High pressure connecting rod for Joy's high pressure valve gear	11 Jul 1903		7' four wheel coupled compound passenger engine: "Alfred the Great" class	
21	C	15625	Details of reversing shaft & disc rod for Joy's high pressure motion	13 Jul 1903		7' four wheel coupled compound passenger engine	
21	C	15626	Details of discs & guides for high pressure motion: Joy's gear	13 Jul 1903		7' four wheel coupled compound passenger engine	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
21	C	15632	Arrangement & details of glass water gauges for engines & tenders	14 Jul 1903		5 classes of locomotives & 3 types of tender	
21	C	15633	Detail of castings for Joy's high pressure motion	18 Jul 1903		7' four wheel coupled compound engine	
21	C	15636	Detail of guide bracket for high pressure valve spindles	23 Jul 1903		7' four wheel coupled compound engine	
21	C	15637	Details of cab & panel plates	23 Jul 1903		7' four wheel coupled compound engine with large boiler & high pressure Joy's valve motion	
21	C	15640	Details of valve spindles & crossheads	22 Jul 1903		7'0" four wheel coupled compound engine fitted with high pressure Joy's gear	
21	C	15656	Locomotive cylinders; steam chest covers	31 Jul 1903			Method for plugging holes in cover when snifting valves are removed
21	C	15658	Details of locomotive chimney	28 April 1915		12 classes of locomotive	
21	C	15681	General arrangement of Duplex Reversing Gear & high pressure valve motion (Joys)	20 Nov 1903		7'0" four wheel coupled compound engine	Part copy
21	C	15681	General arrangement of Duplex Reversing Gear & high pressure valve motion (Joys)	17 Aug 1903		7'0" four wheel coupled compound engine	
21	C	15692	Arrangement of roofing bars for firebox	16 Aug 1907	13 Jan 1910	6'6" four wheel coupled passenger engine: "Precursor" class	
21	C	15693	Details of cylinder drain valves	4 Sep 1903		4'3" four cylinder compound coal engine	These drain valves cancelled after 19 Aug 1914
21	C	15694	Details of axles & crank pins	4 Aug 1905	21 Mar 1907	6'6" four wheel coupled passenger engine with Joys valve gear	
21	C	15695	Driving & trailing wheels	19 Dec 1960		6'6" four wheeled coupled passenger engine with Joy's valve gear	Traced from original dated 10 Sep 1903

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
22	C	15701	Trailing hornblock	12 Sep 1903		6'6" four wheel coupled passenger engine with Joy's motion	
22	C	15702	Detail of piston & cylinder covers	12 Sept 1903	8 Oct 1940	6'6" four wheel coupled passenger engine with Joy's motion	
22	C	15703	Details of roofing bars & brackets for firebox	6 Nov 1922		6'6" four wheel coupled passenger engine. "George the Fifth" class	
22	C	15704	Diagrams showing wheelbases & weights on wheels etc:	1 Mar 1909		4'3" compound & non-compound goods engines	
22	C	15706	Diagram of wheel bases & weights for goods engines	31 Jan 1912			Sheet No. 2
22	C	15706	Diagram of wheel bases & weights for goods engines	22 Jun 1906	28 Feb 1909		Sheet No. 1
22	C	15707	Details of steam chest cover: front end	21 Nov 1924	3 Dec 1924	"Precursor", "Experiment", 6'0" four coupled side tank & 5'0" six coupled goods	
22	C	15709	Details of steel castings	17 Sep 1903		6'6" four wheel coupled passenger engine with Joy's motionl	
22	C	15716	Details of cylinders 19" dia. X 26" stroke	26 Sep 1903		6'6" four wheel coupled passenger engine with Joy's motionl	
22	C	15717	Footplate casting for engines fitted with the vacuum brake	21 May 1912		6'6" "George the Fifth" class	Part copy
22	C	15717	Details of footplate, corner bracket & footstep	28 Sep 1903		6'6" four wheel coupled passenger engine with Joy's motionl	
22	C	15723	Details of driving hornblocks	6 Oct 1903		6'6" four wheel coupled passenger engine with Joy's valve gear	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
22	C	15729		Alterations to firebars brackets & carriers for boilers having long fireboxes	14 Oct 1903			
22	C	15737		Details of valve motion	5 Jan 1915		6'6" four wheel coupled passenger engine with Joy's valve motion	
22	C	15738		Details of piston rod & slide bars	9 Oct 1903	26 Feb 1941	6'6" four wheel coupled passenger engine with Joy's valve motion	
22	C	15739		Details of misc. castings	9 Oct 1903		6'6" four wheel coupled passenger engine with Joy's valve motion	
22	C	15746		3000 gallon tender : details of frame covering plates, beading angles etc:	17 Oct 1903			Only correct for tenders with coal well tanks. For tenders with sloping bunker tanks see Trs. 18166
22	C	15747		Standard 3000 gallon tender: detail of tank	17 Oct 1903	16 Jun 1936		
23	C	15754		Details of connecting rods	17 Oct 1914		"Precursor" class	
23	C	15755		Details of reversing shaft, brackets & lever	22 Oct 1903		6'6" four wheel coupled passenger engine with Joy's valve motion	
23	C	15756		Details of regulator, standpipe & tee pipe	25 Nov 1911		"Precursor" locomotives & 14 other classes	
23	C	15757		3000 gallon tender: details of hornblocks	22 Oct 1903			
23	C	15757		3000 gallon tender: details of hornblocks	28 Apr 1920			
23	C	15758		3000 gallon tender: details of central buffer & couplings	7 Feb 1921		Eleven classes of locomotives	
23	C	15759		Details of frame plates	6 Mar 1907		"Precursor" class	
23	C	15760		3000 gallon tender: details of footstep	28 Oct 1903			
23	C	15763		Detail of slide valve & buckle	14 Nov 1923		Eleven classes of locomotive	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
23	C	15765		Details of quadrant, shaft, eccentric sheave & strap for regulating valve	6 Dec 1915	27 Jun 1946	6'6" four wheel coupled passenger engine with Joy's valve motion	
23	C	15771		Arrangement of carriage heating apparatus on engine No. 1881	6 Nov 1903			
23	C	15772		Pump for automatic vacuum brake	31 Oct 1903	1 Nov 1937	6'6" four wheel coupled passenger engine with Joy's valve motion	
23	C	15773		Detail of cab window frames	5 Nov 1903		7'0" four wheel coupled compound engine (with large boiler) fitted with H.P. Joy's valve motion	
23	C	15779		3000 gallon tender: details of forgings for brake gear	5 Nov 1903			
23	C	15780		3000 gallon tender: details of castings for steam and hand brake gear	7 Nov 1903			
23	C	15781		Detail of driving splasher	21 Dec 1903		6'6" four wheel coupled passenger engine with Joy's valve gear. "Precursor" class	
23	C	15782		Arrangement & details of cylinder cock gear	12 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve gear. "Precursor" class	
23	C	15790		General arrangement of smokebox	26 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve gear	
23	C	15796		Details of scoop and hangers for pick-up apparatus on standard 3000 gallon tender	12 Nov 1903			
23	C	15797		Arrangement & details of reversing gear	28 Jun 1907		"Precursor" class	
24	C	15800		General arrangement of reversing gear	15 Feb 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	



Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
24	C	15801		General arrangement of radial truck	22 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	
24	C	15802		General arrangement of pipes for vacuum brake	21 Dec 1903		6'6" four wheel coupled passenger engine with Joy's valve motion	
24	C	15803		General arrangement of auto vacuum brake. End views & cross sections	30 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	
24	C	15804		Details of handrails & vacuum pipes	19 Dec 1903		6'6" four wheel coupled passenger engine with Joy's valve motion	
24	C	15806		Arrangement & details of sand gear	4 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	
24	C	15810		Standard locomotive water gauge	27 Nov 1903			
24	C	15810		General arrangement & details of shut off gear fitted to standard LNWR locomotive water gauge	4 Jun 1920			
24	C	15813		Details of boiler mountings	16 Mar 1909	7 Feb 1912	6'6" four wheeled coupled passenger engine with Joy's valve motion	
24	C	15814		General arrangement of ashpan & firebars	5 Dec 1903	16 Jul 1934	6'6" four wheeled coupled passenger engine with Joy's valve motion	
24	C	15814		Ashpan altered for engines fitted with automatic vacuum sack	23 Jul 1912		6'6" four wheeled coupled passenger engine with Joy's valve motion	Rider to previous drawing
24	C	15818		3000 gallon tender: details of frame	16 Jan 1908	17 Nov 1938		
24	C	15819		Details of fittings for smokebox front	4 Dec 1903	3 Apr 1911	6'6" four wheel coupled passenger engine with Joy's valve gear	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
24	C	15822	Standard buffers for engines & tenders	28 Sep 1917	1 Feb 1943		
24	C	15823	Details of cab window frames	19 Dec 1903		6'6" four wheel coupled passenger engine with Joy's valve motion	
24	C	15825	Carriage heating apparatus	23 Jan 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	
24	C	15826	Detail of cast iron blocks for footplate	19 Dec 1903		6'6" four wheel coupled passenger engine with Joy's valve motion	
24	C	15832	Details of forgings for injector gear	20 Jan 1904	26 Jan 1914	6'6" four wheel coupled passenger engine with Joy's valve motion	
24	C	15854	Standard 3000 gallon tender: details of pick-up apparatus	24 Nov 1903	11 Apr 1921		
24	C	15855	Standard 3000 gallon tender: details of axlebox	5 Dec 1903	28 Oct 1912		
24	C	15858	3000 gallon tender: detail of spring (for curved type plates)				
24	C	15888	Standard 3000 gallon tender: detail of trailing draw-bar	11 Jan 1904			
24	C	15891	Standard 3000 gallon tender: details of bracket, screw & locking gear for pick-up apparatus	12 Jan 1904			
24	C	15892	Standard 3000 gallon tender: details of forgings etc: for pick-up apparatus	12 Jan 1904			
24	C	15893	Standard 3000 gallon tender: details of life guards, handrails, valve rods & feed pipe stays	28 May 1920	4 Dec 1946		
25	C	15908	Arrangement of tool boxes and coal rack	9 Feb 1904		5'0" six wheel coupled side tank engine (18" cylinders)	Also used for 5'6" passenger side tank engine

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
25	C	15913	Detail of name plate	19 Feb 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	21 Nov 1960 tracing from original drawing. Precursor
25	C	15913	Detail of name plate	19 Feb 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	Precursor. Original drawing.
25	C	15922	Arrangement of tool boxes and coal rack	1 Mar 1904		4'3" side tank coal engine	
25	C	15925	Arrangement of pipes for carriage heating apparatus and auto vacuum brake	4 Mar 1904		Standard 3000-gallon tender fitted with steam brake and coal well	
25	C	15940	6" hatch box	12 Mar 1904		not specified	
25	C	15945	Detail of ram head and sling bolts	7 Apr 1904		Steam shed engine lift with 5 1/2" diameter ram	
25	C	15948	Details of forgings for press and working valve	23 Mar 1904		Standard 18" x 24" hydraulic copying press	
25	C	15960	Arrangement of tool boxes and coal rack	26 Mar 1904		4'6" side tank engine (8 wheels - 2-4-2T)	
25	C	15962	Details of arrangement of indicator plate for water pickup apparatus	12 May 1920		3000-gallon tender	
25	C	15970	Details of blower and steam jet valve	7 Oct 1931		6'6" four wheel coupled passenger engine with Joy's valve motion	Precursor class. Valve is used also for Classes Prince of Wales and George V
25	C	15980	Detail of wheel 3' diameter with 3" tyres	4 May 1904		4'3" 4-cylinder eight wheels coupled compound coal engine with leading radial axlebox	
25	C	15982	Details of trailing hornblock	12 Nov 1908		6'6" four wheel coupled passenger engine with Joy's valve motion	Precursor class
25	C	15983	General arrangement of trailing hornblocks	16 Apr 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
25	C	15984	Details of cylinders (19 1/2" diameter x 24" stroke)	16 Apr 1904		4'3" eight wheels coupled compound engine	
25	C	15988	Details of castings for radial truck	16 Apr 1904		6'6" four wheel coupled passenger engine with Joy's valve motion	Castings are the same as for 7'0" 4-wheel coupled compound engine
25	C	15989	Special girder and rail for craneway	22 Apr 1904	2 Nov 1906	15-ton electric travelling crane	
25	C	15989	General arrangement of leading end	7 May 1904		4'3" 4-cylinder eight wheels coupled compound coal engine with leading radial axlebox	
25	C	15994	Details of cab panel plates and bunker	30 Apr 1904	10 Oct 1927	4'3" six wheel coupled saddle tank coal engine	
26	C	16016	Wood seat for enginemen	4 Jun 1920		5 classes of engine	
26	C	16024	Gusset brackets and footplate spring trough	16 May 1904		4'3" six wheel coupled saddle tank coal engine	
26	C	16030	General arrangement and detail of brake gear	29 Jun 1918		4'3" six wheel coupled saddle tank coal engine	
26	C	16033	Arrangement and details of sand gear	4 Aug 1904		4'3" six wheel coupled saddle tank coal engine	
26	C	16041	Details of cab window frame	13 Jun 1904	16 Sep 1937	4'3" six wheel coupled saddle tank coal engine	
26	C	16046	Details of elbow castings etc. for automatic vacuum brake	10 Feb 1911		Standard fitting	
26	C	16050	Diagram of couplings for engines and tenders	5 May 1910		Standard fittings	
26	C	16075	Detail of crank pins	25 Jul 1904		4'3" eight wheels coupled coal engine	3-cylinder compound converted to simple engine
26	C	16085	Details of frame plates and outside covering plates	19 Jul 1904		4'3" eight wheels coupled coal engine (cylinders 19 1/2" and 18 1/2"); classes C and C1	Fitted with a boiler of 4'4" diameter

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
26	C	16086	Details of wheels	19 Jul 1904		4'3" eight wheels coupled coal engine (cylinders 19 1/2" and 18 1/2")	
26	C	16087	Diagram shewing clearance between axlebox and hornblock	26 Aug 1898		Many classes	
26	C	16088	Diagram sheet of shield plates for passenger and goods engines	13 Jul 1892		Many classes	
26	C	16091	Diagrams of motion plates for goods engines	5 May 1894		Many classes of compound and non-compound goods engines	
26	C	16096	Locomotive tube plates - diagram showing arrangement of tubes	18 Sep 1905		Many classes	
26	C	16102	Details of spring bracket and hook	11 Apr 1906		3000-gallon tender	
26	C	16114	Diagram of asbestos joints for locomotives	17 Mar 1955		Many classes	Retraced from drawing dated 1916
26	C	16115	Steam chest covers	8 Aug 1904	29 Jul 1905	4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter)	
26	C	16120	Details of steel castings	13 Aug 1904		4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter)	Details correct for same engine fitted with 5'2" diameter boiler
26	C	16121	Details of leading and trailing hornblocks	15 Aug 1904	19 Dec 1946	4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter)	
26	C	16123	Arrangement and details of reversing gear	15 Sep 1905		4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter and 5'2" diameter boilers)	
26	C	16125	Standard life guards	26 Oct 1894		Many classes	
26	C	16125	Details of life guards	23 Apr 1915		6'0" six coupled passenger engine, Prince of Wales class	Also 4'3" eight coupled coal engine, class G1. Part copy

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
26	C	16127	Arrangement and details of cylinder cock gear	1 Jul 1909		4'3" eight wheels coupled coal engine with 4'4" diameter boilers; classes C & C1	Also used for engines with 5'2" diameter boiler; class D
26	C	16140	Details and general arrangement of hopper and spark arrester	7 Sep 1904	16 Nov 1904	4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter)	
26	C	16146	Standard smokebox door for opening 3'10" diameter	15 Sep 1904	16 May 1947	Standard	
26	C	16149	Details of smokebox	15 Sep 1904		4'3" eight wheels coupled coal engine (cylinders 19 1/2" diameter)	
26	C	16161	Diagram of metallic packing for piston rod and valve spindles	3 Apr 1919		Many locomotives	
26	C	16162	Details of metallic packing	8 Sep 1904		Locomotive engines	
26	C	16163	Detail metallic packing for valve spindles	13 Aug 1920		4'3" four cylinder compound coal engine	
26	C	16163	Details of metallic packing	8 Sep 1904		Locomotive engines	
27	C	16206	Details of footplate corner brackets and footstep	19 Nov 1904	Jul 1912	6'0" six wheel coupled passenger engine	Used for Experiment, Precursor and 5'0" six wheel coupled goods engine
27	C	16207	Detail of central bearing	2 Dec 1904		6'0" six wheel coupled passenger engine - Experiment and Prince of Wales classes	
27	C	16232	Details of axles and crank pins	22 Mar 1920		6'0" six coupled Prince of Wales class	
27	C	16240	Details of connecting rod	13 Dec 1904		6'0" six wheel coupled passenger engine	
27	C	16241	Details of driving wheels and general arrangements of balance weights	12 Dec 1904		6'0" six wheel coupled passenger engine	With riveted balance weights
27	C	16241	Details of driving wheels and general arrangements of balance weights	17 Oct 1914		6'0" six coupled passenger engine - Experiment class	Also used for Prince of Wales class - with crescent balances

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
27	C	16242		Intermediate and trailing wheels	17 Oct 1914		6'0" six coupled passenger engine - Experiment class	Also used for Prince of Wales class
27	C	16243		Motion plate, cross stay and footplate carrying bracket	7 Dec 1904		6'0" six wheel coupled passenger engine	
27	C	16262		Details of big end of connecting rod	9 Feb 1914		4'3" eight wheel coupled coal engine	
27	C	16263		Details of metallic packing for regulator stuffing box	10 Oct 1905		Standard fitting	
27	C	16264		Detail of trailing spring	8 Dec 1908		4'3" eight coupled coal engine fitted with leading radial axlebox	
27	C	16266		Details of miscellaneous castings	20 Dec 1904		6'0" six wheels coupled passenger engine	
27	C	16267		Detail of intermediate hornblock	23 Dec 1904		6'0" six wheels coupled passenger engine	Experiment and Prince of Wales classes
27	C	16285		Details of roofing bars and stays for firebox	16 Apr 1915		6'0" six coupled passenger engine	
27	C	16286		Details of covering plates	20 Jul 1909		6'0" six wheel coupled passenger engine	
27	C	16289		Details of piston and cylinder covers	17 Jan 1905	25 Jun 1934	6'0" six wheel coupled passenger engine	
27	C	16290		Details of reversing shaft, brackets and lever	12 Jan 1905	11 May 1909	6'0" six wheel coupled passenger engine	Also used for other classes, eg. 5'0" 6-wheel coupled goods engine
27	C	16292		Details of frame plates	20 Jul 1909		6'0" six coupled passenger engine	
27	C	16293		Tie casting for trailing wheels	18 Sep 1908		6'0" six coupled passenger engine, Experiment class	Part copy
27	C	16293		Details of pads for intermediate and trailing springs	17 Jan 1905		6'0" six coupled passenger engine	
27	C	16298		Details of big end for connecting rod	21 Jan 1905	28 May 1943	4'3" four cylinder compound coal engine	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
27	C	16299	Details of cab and panel plates	2 Aug 1911	16 Jul 1918	6'0" six wheel coupled passenger engine	Applies to all engines of Experiment and Prince of Wales classes built at Crewe
28	C	16301	Arrangement and details of reversing gear	5 Jun 1925	15 Oct 1935	6'0" six wheel coupled passenger engine	Also used for Prince of Wales class
28	C	16312	Details of splashers	16 Apr 1915		6'0" six wheel coupled passenger engine Prince of Wales class	
28	C	16314	Diagram showing principle dimensions of standard cabs	none		Standard - different cabs from 16315	
28	C	16315	Diagram showing principle dimensions of standard cabs	7 Feb 1905		Standard - different cabs from 16314	
28	C	16318	Arrangement and details of cylinder cock gear	7 Mar 1905		6'0" six wheel coupled passenger engine	
28	C	16324	General arrangement of steam brake gear	18 Feb 1905	Jul 1912	6'0" six wheel coupled passenger engine	
28	C	16326	Details of steam brake gear	18 Feb 1905	Jul 1912	6'0" six wheel coupled passenger engine	
28	C	16327	General arrangement of auto vacuum brake - elevations and plan	11 Mar 1905		6'0" six wheel coupled passenger engine	
28	C	16328	General arrangement of auto vacuum brake - end views and cross sections	11 Mar 1905	Jul 1912	6'0" six wheel coupled passenger engine	
28	C	16329	Details of handrails and vacuum pipes	22 Feb 1905	23 Jan 1920	6'0" six wheel coupled passenger engine	
28	C	16336	Arrangement of roofing bars for firebox	16 Aug 1907	12 Jan 1910	6'0" six coupled passenger engine - Experiment class	
28	C	16337	General arrangement of ashpan and firebars	27 Apr 1920	16 Jul 1934	6'0" six wheel coupled passenger engine	
28	C	16337	General arrangement of ashpan and firebars	7 Feb 1905	15 Nov 1918	6'0" six wheel coupled passenger engine	
28	C	16339	Details of forgings for injectors and feed pipes	22 Feb 1905		6'0" six wheel coupled passenger engine	



<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
28	C	16340	Details of lagging for boiler	? May 1915		6'0" six wheel coupled passenger engine - Experiment and Prince of Wales classes	
28	C	16340 PC	Alteration to firebox lagging plates	1 Sep 1920		6'0" six coupled Prince of Wales class	Part copy
28	C	16341	General arrangement and details of damper gear	4 May 1915		6'0" six wheel coupled passenger engine	
28	C	16342	General arrangement of smokebox	18 Feb 1905		6'0" six wheel coupled passenger engine	
28	C	16344	Details of cast iron and wood blocks for footplate	18 Mar 1905		6'0" six wheel coupled passenger engine	Required for Prince of Wales, Experiment and 5'0" six wheel coupled goods
28	C	16345	Arrangement of lubricators and pipes	21 Jul 1905		6'0" six wheel coupled passenger engine	
28	C	16346	Arrangement of steam heating apparatus	18 Mar 1905		6'0" six wheel coupled passenger engine	
29	C	16354	Detail of name plate	13 Jul 1915		6'0" six coupled Prince of Wales class	
29	C	16363	Details of piston head, cylinder covers and steam chest cover	17 Oct 1904		Steam motor carriage	
29	C	16364	Detail of connecting rod	17 Oct 1904		Steam motor carriage	
29	C	16365	Details of wheels, axles and crankpins	17 Oct 1904		Steam motor carriage	
29	C	16368	Details of hornblock, axlebox and tiebars	17 Oct 1904		Steam motor carriage	
29	C	16369	Details of piston rod, slide bars and crosshead	17 Oct 1904		Steam motor carriage	
29	C	16373	Details of valve motion	17 Oct 1904		Steam motor carriage	
29	C	16374	Details of eccentrics and eccentric rods	17 Oct 1904		Steam motor carriage	
29	C	16375	General arrangement and details of smokebox	1 Dec 1904		Steam motor carriage - cylinders 9 1/2" x 15"	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
29	C	16376	Smokebox plates and door	19 Nov 1904		Steam motor carriage - cylinders 9 1/2" x 15"	
29	C	16377	Details of castings and forgings	1 Dec 1904		Steam motor carriage - cylinders 9 1/2" x 15"	
29	C	16396	Detail of motion plate	17 Oct 1904		Steam motor carriage	
29	C	16397	Detail of coupling rods	17 Oct 1904	16 Apr 1917	Steam motor carriage - cylinders 9 1/2" x 15"	
30	C	16402	Details of engine bogie centre	20 Mar 1905		Steam motor carriage	
30	C	16405	Details of water tanks	20 Mar 1905		Steam motor carriage	
30	C	16408	Roofing bars, slings and stays for boilers	17 Oct 1904		Steam motor carriage	
30	C	16414	General arrangement and details of exhaust pipes	23 Mar 1905		Steam motor carriage	
30	C	16415	Details of frames and covering plates	20 Mar 1905		Steam motor carriage	
30	C	16416	Boiler supporting pads and reversing shaft brackets	6 Apr 1905		Steam motor carriage	
30	C	16420	Castings for water tanks	4 Apr 1905		Steam motor carriage	
30	C	16421	Details of reversing shaft, rod and lever	31 Mar 1905		Steam motor carriage	
30	C	16422	Details of spring gear	4 Apr 1905		Steam motor carriage	Also for rail motor coach
30	C	16425	Detail of engine bearing springs	7 Apr 1905		Steam motor carriage	
30	C	16426	Detail of spring buckle	7 Apr 1905		Steam motor carriage	
30	C	16427	Details of forgings for reversing and brake screws	8 Apr 1905		Steam motor carriage	
30	C	16428	Castings for reversing and brake screw	8 Apr 1905		Steam motor carriage	
30	C	16434	Diagram of chimneys	7 Sep 1906		16 examples of chimney	
30	C	16443	Details of water tank on coach	3 May 1905		Steam motor carriage	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
30	C	16449	Steam brake - diagram of tee levers and pendulum rods	31 Mar 1905	Jun 1912	Standard fitting	
30	C	16455	Arrangement and details of firehole door	7 Jun 1905		Steam motor carriage	
30	C	16457	General arrangement and details of safety valve	17 May 1905		Steam motor carriage	
30	C	16458	General arrangement and details of ashpan, firebars and damper gear	17 May 1905		Steam motor carriage	
30	C	16460	Details of brake gear	18 May 1905		Steam motor carriage	
30	C	16461	General arrangement and details of cylinder steam pipes	18 May 1905		Steam motor carriage	
30	C	16463	Details of regulator valve and injector steam valves	18 May 1905		Steam motor carriage	
30	C	16473	Detail of tank water gauge and water connections	4 Oct 1905		Steam motor carriage	
30	C	16485	Details of lagging for boiler	31 May 1905		Steam motor carriage	
30	C	16486	Bracket for boiler mountings	31 May 1905		Steam motor carriage	
30	C	16488	Arrangement and details of cylinder cock gear	2 Jun 1905		Steam motor carriage	
30	C	16491	Details of stays for firebox tubeplate	27 Jul 1922		7' 4-whl. coupled compound passr., 6'6" 4-whl. coupled passr. and 6' 6-wh. coupled passr. Engines	Five other 6'0", 5'0" and 4'3" engines
30	C	16494	General arrangement of engine brake gear	6 Jun 1905		Steam motor carriage - cylinders 9 1/2" x 15"	
30	C	16495	Details of hornblocks for intermediate wheels, corner brackets, boiler carrying bracket and frame stay, and bracket for reversing gear	6 Jun 1905		4'3" eight whel coupled coal engine (19 1/2 cylinders)	
30	C	16498	Arrangement and details of regulator gear	13 Jun 1905		Steam motor carriage	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
31	C	16513	Details of frame plates and covering plates	9 May 1906		Class D: 4'3" eight wheel coal engine fitted with 5'2" dia. large boiler	
31	C	16513	Details of frame plates and covering plates	24 Mar 1916		Class F: 4'3" 4-cyl. compound coal engine fitted with large boiler 5'2" dia.	
31	C	16516	Details of brick arch and deflector plate	24 Jun 1905		Steam motor carriage	
31	C	16517	General arrangement and details of injector gear	24 Jun 1905		Steam motor carriage	Also used for rail motor coaches with 11" x 16" cylinders
31	C	16518	Details of smokebox front fittings	20 Jun 1905		Numerous engines	
31	C	16520	Arrangement and details of spring gear for intermediate wheels	29 Jun 1905		4'3" eight wheel coupled coal engine (19 1/2" cylinders) and 5'2" diameter boilers	Also required for four other classes
31	C	16521	Arrangement of injector, blower and water gauge	28 Jan 1905		Steam motor carriage	
31	C	16525	Detail of connecting rod	19 Jul 1895		7'0" four coupled compound passenger engine	
31	C	16529	Details of small end for connecting rod	28 Jan 1905		4'3" eight wheel coupled coal engine (superheated G1 Class)	Also used for eight other engines
31	C	16533	Standard connecting rod and goods and passenger engines	21 Jan 1918		Standard fitting	
31	C	16537	Detail of weathering plates on chimney and dome	17 Jul 1905		Steam motor carriage	Also used for rail motor coaches with 11" x 16" cylinders
31	C	16540	Arrangement and details of sand gear	17 Jul 1905		Steam motor carriage	
31	C	16546	General arrangement of reversing gear	21 Jul 1905		Steam motor carriage	Also used for rail motor coaches with 11" x 16" cylinders
31	C	16547	General arrangement of lubricators and pipes	22 Jul 1905		Steam motor carriage	Also used for rail motor coaches with 11" x 16" cylinders
31	C	16549	General arrangement and details of steam heating apparatus	5 Aug 1905		Steam motor carriage	Also used for rail motor coaches with 11" x 16" cylinders

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
31	C	16557		Arrangement of firebox with foundation ring and ashpan	22 Jul 1905		7'0" four wheel coupled compound passenger engine, Alfred the Great Class	
31	C	16563		Detail of ashpan	8 Oct 1915	16 Jul 1934	4'3" eight wheel coupled coal engine (superheated Class G1)	Also used on engines fitted with 5'2" diameter boilers
31	C	16565		General arrangement of smokebox	14 Aug 1905		4'3" eight wheel coupled coal engine	Fitted with 19 1/2" cylinders and 5'2" diameter large boilers
31	C	16568		General arrangement of injectors & lubricating pipes for trailing axle	4 Oct 1905		4'3" eight wheel coupled coal engines with boiler 5'2" dia.	
31	C	16569		Diagram of steam pipes	31 Mar 1908		4'3" eight wheel coupled coal engines with boiler 5'2" dia.	
31	C	16569		Detail of steel steam pipes & flanges in smokebox	13 Apr 1908		4'3" eight wheel coupled coal engines with boiler 5'2" dia.	
31	C	16570		General arrangement of steam jet pipes in smokebox & wet sanding gear	10 Oct 1905	Feb 1907	4'3" eight wheel coupled coal engines with boiler 5'2" dia.	
31	C	16571		Detail of cab & panel plates	3 Oct 1905		4'3" eight wheel coupled coal engines with boiler 5'2" dia.	
31	C	16572		Detail of top footplate castings	18 Sep 1905	16 Feb 1946	4'3" eight wheel coupled coal engines with boiler 5'2" dia.	
31	C	16573		Details of roofing bars & stays for firebox	6 Jun 1913		4'3" eight wheel coupled coal engines with boiler 5'2" dia.	
32	C	16605		Details of wheels	30 Aug 1905	5 Mar 1914	6'0" four wheel coupled side tank passenger engine	
32	C	16622		Details of tee pipe	18 Sep 1905		4'3" eight wheel coupled coal engine (19 1/2 inch cylinders) fitted with large boilers (5'2" dia)	
32	C	16623		Spiral spring gear for driving wheels	18 Sep 1905	8 Feb 1925	6'6" four wheel coupled passenger engine	
32	C	16627		Boiler	5 Oct 1905	3 Apr 1939	6'0" four wheel coupled side tank engine	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
32	C	16628	Detail of leading spring	27 Jun 1917	20 Nov 1943	4'6" four coupled side tank engine, 2-4-2 type	Also used for six other classes
32	C	16630	Detail of stamped splashers	20 Mar 1929		4'3" eight coupled coal engine (G, G1 and D)	
32	C	16647	Diagram of wooden boards for top of tanks	25 Jan 1932		Side tank engines	
32	C	16667	Details of reversing shaft, brackets and lever	10 Nov 1905	26 Oct 1909	6'0" four wheel coupled side tank engine	
32	C	16678	Steel castings for framework	20 Nov 1905		6'0" four wheel coupled side tank engine	
32	C	16682	Arrangement of baffle plate in steam dome	31 Mar 1908		6'0" four wheel coupled side tank engine (Precursor class)	Part also used for many other engines
32	C	16682	Smoke-box plates and door	30 Nov 1905	30 Mar 1911	6'0" four wheel coupled side tank engine	
32	C	16685	Details of steam and hand brake gear	5 Jan 1906		6'0" four wheel coupled side tank engine	
32	C	16687	Details of front and back cab windows	12 Mar 1906		6'0" four wheel coupled side tank engine	Also used for 5'0" 6-wh. coupled goods and 5'6" 6-wh. coupled side tank engine
32	C	16689	Diagram of steam pipes	30 Jul 1908		6'0" four wheel coupled side tank engine	
32	C	16689	Details of steam pipes and flanges in smoke-box	11 Dec 1905	30 Aug 1907	6'0" four wheel coupled side tank engine	
32	C	16695	Detail of cab and gate	12 Dec 1905		6'0" four wheel coupled side tank engine	
33	C	16701	Details of motion plate, cross stay and trailing hornblock	18 Dec 1905	12 Jun 1906	6'0" four wheel coupled side tank engine	
33	C	16711	General arrangement of ashpan	23 Dec 1905	16 Jul 1934	6'0" four wheel coupled side tank engine	
33	C	16712	Arrangement and details of damper gear	23 Jan 1906		6'0" four wheel coupled side tank engine	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
33	C	16726		Spring gear for trailing wheels	27 Apr 1906		6'0" four wheel coupled tank engine	Also used for 5'6" six coupled side tank engine
33	C	16736		Details of regulator, stand pipe and tee pipe	12 Jan 1906		6'0" four wheel coupled side tank engine	
33	C	16740		Diagram sheet of panel plate tank and bunker handrails	16 Dec 1905		Very many classes of engine and types of tender	
33	C	16743		General arrangement and details of injector gear	23 Jan 1906		6'0" four wheel coupled side tank engine	
33	C	16749		General arrangement of smoke box	1 Feb 1906		6'0" four wheel coupled side tank engine	
33	C	16753		Arrangement and details of reversing gear	7 Feb 1906	18 Oct 1935	6'0" four wheel coupled side tank engine	
33	C	16767		Details of hand rails and vacuum pipes	9 Feb 1906		6'0" four wheel coupled side tank engine	
33	C	16772		General arrangement of leading and trailing sand gear	24 Jun 1913		6'0" four wheel coupled side tank engine	
33	C	16773		Details of sand gear	17 Feb 1906		6'0" four wheel coupled side tank engine	Changes made after first 30 engines
33	C	16774		Arrangement and details of cylinder cock gear	14 Feb 1906		6'0" four wheel coupled side tank engine	Changes made after first 30 engines
33	C	16776		Details of wood blocks for footplate	19 Feb 1906		6'0" four wheel coupled side tank engine	
33	C	16777		Details of axles and crank pins	19 Feb 1906	17 Jun 1907	6'0" four wheel coupled side tank engine	
33	C	16781		Details of brackets for carrying outside covering plates	7 Apr 1915		4'3" eight wheel coupled coal engine (superheated) - Class G1	Also used for classes D and G
34	C	16806		Boiler	7 Mar 1906	7 Aug 1936	5'0" six wheels coupled goods engine	
34	C	16806		Diagram of firebox shewing position of lagging plate studs	25 Oct 1920		5'0" six coupled goods engine	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
34	C	16807		Sandboxes and detail castings for trailing wheels	12 Mar 1906	22 Nov 1906	6'6" four wheel coupled passenger engine (Precursor class)	
34	C	16812		Details of castings for radial truck	16 Mar 1906		5'0" six wheel coupled goods engine -19" cylinders	
34	C	16816		Arrangement of wheels and balance weights	22 Mar 1906		5'0" six wheel coupled goods engine - cylinders 19" x 26"	
34	C	16820		Arrangement and details of reversing gear	26 Mar 1906		4'3" four cylinder compound coal engine	
34	C	16823		Details of axles and crank pins	2 Mar 1906	1 Jan 1913	5'0" six wheel coupled goods engine - cylinders 19" x 26"	
34	C	16825		End elevations	31 Mar 1906		6'0" four wheel coupled side tank engine, cylinders 19" diameter, 26" stroke	Drawing inscribed "First engine built May 1906" signed by C. Whale
34	C	16826		Details of castings	31 Mar 1906		5'0" six wheel coupled goods engine - cylinders 19" x 26"	
34	C	16831		Details of sand gear	7 Apr 1906	27 Feb 1907	4'3" four cylinder compound coal engine - Class F	Also used for several other engines
34	C	16832		General arrangement of radial truck	28 Mar 1906		5'0" six wheel coupled goods engine	Also used for several other engines
34	C	16838		Hand wheel for reversing and brake gear	10 Apr 1906		Many classes of goods and passenger engines	
34	C	16839		General arrangement of sand gear	11 Apr 1906		4'3" four cylinder compound coal engine - Class F	
34	C	16841		Arrangement of lubricators and oil pipes	21 Apr 1906		6'0" four wheel side tank engine	
34	C	16842		General arrangement of auto-vacuum brake and carriage heating apparatus	11 Apr 1906		6'0" four wheel side tank engine	
34	C	16843		General arrangement of auto-vacuum brake and carriage heating apparatus	11 Apr 1906		6'0" four wheel side tank engine	
34	C	16846		Diagram pf reversing levers for locomotives	7 Apr 1906	1915	Many classes of goods and passenger engines	



Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
34	C	16852	Arrangement of lubricating pipes for piston rods, valve spindles and trailing axleboxes	27 Apr 1906			4'3" four cylinder compound coal engine fitted with large boilers 5'2" diameter
34	C	16855	Detail of engine number plate shewing arrangement of figures	7 Apr 1915			Standard
34	C	16863	Details of steam brake gear	30 Apr 1906			5'0" six wheels coupled goods engine - cylinders 19" x 26"
34	C	16865	General arrangement of steam brake gear	27 Apr 1906			5'0" six wheels coupled goods engine - cylinders 19" x 26"
34	C	16872	Bletchley steam shed - arrangement of hydraulic machinery, etc.	9 May 1906	23 Sep 1931		Bletchley steam shed
34	C	16878	General arrangement of smoke-box	26 Jun 1906			4'3" four cylinder compound coal engine fitted with large boilers 5'2" diameter
34	C	16883	Standard 11mm re-starting injector	24 May 1906			Standard
34	C	16884	Arrangement of steam jet pipes in smoke-box	8 Jun 1906	17 Aug 1911		4'3" four cylinder compound coal engine
34	C	16891	Details of miscellaneous springs	11 Apr 1913			General
35	C	16900	Details of steam pipes and flanges in smoke-box	29 May 1906			5'0" six wheels coupled goods engine - cylinders 19" x 26"
35	C	16917	General arrangement of ashpan and firebars	5 Jun 1906	16 Jul 1934		5'0" six wheels coupled goods engine - cylinders 19" x 26"
35	C	16918	Standard water gauge for locomotives	13 May 1921			Standard fitting
35	C	16928	Hand brake nut wrought iron forging	26 Jun 1906			5'0" side tank (18" cylinders), 4'6" side tank and 5'6" side tank engines
35	C	16930	Hornblocks and spring gear for coupled wheels	22 Jun 1906			5'0" six wheels coupled goods engine - cylinders 19" x 26"
35	C	16939	General arrangement and details of damper gear	16 Jul 1906			5'0" six wheels coupled goods engine - cylinders 19" x 26"

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
35	C	16945	General arrangement and details of injector gear	20 Jul 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"	
35	C	16949	Details of leading sandboxes, radius rod brackets, slide bars and piston rods	20 Jul 1906	19 Dec 1946	4'3" eight wheel coupled coal engine (20 1/2" cylinders) four-cylinder compound converted	
35	C	16950	Detail of metallic packing for piston rods	20 Jul 1906		4'3" eight wheel coupled coal engine (20 1/2" cylinders) four-cylinder compound converted	
35	C	16951	General arrangement of reversing gear	27 Jul 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"	
35	C	16960	Details of castings for sand gear	10 Aug 1906	May 1909	5'0" six wheels coupled goods engine - cylinders 19" x 26"	
35	C	16961	Arrangement of steam heating apparatus	10 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"	
35	C	16963	General arrangement of auto vacuum brake gear	11 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"	
35	C	16964	Arrangement of steam brake exhaust pipes	10 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"	
35	C	16965	Details of handrails and vacuum pipes	4 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"	
35	C	16967	Arrangement and details of cylinder cock gear	10 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"	
35	C	16970	General arrangement of smokebox	10 Aug 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"	
35	C	16972	Radial axlebox for trailing end	11 Aug 1906		6'0" four wheel coupled tank engine	Used for three other classes
35	C	16974	Diagram of steam pipes and flanges in smokebox	10 Aug 1906		4'3" eight wheel coupled coal engine (20 1/2" cylinders) four-cylinder compound converted	
35	C	16974	Diagram of steam pipes	31 Mar 1908		4'3" eight wheel coupled coal engine 20 1/2" diameter cylinders	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
35	C	16978		Breakdown van	20 Aug 1889		Break down van	
35	C	16999		General arrangement and details of cylinder cock gear	19 Sep 1906	19 Aug 1914	4'3" eight wheel coupled coal engine (20 1/2" cylinders) four-cylinder compound converted	
36	C	17008		Details of steam brake cylinder and stayplate	28 Sep 1906		6'0" four coupled side tank engine	
36	C	17009		Diagram of handles for locomotives	25 Jul 1906		Many classes of goods and passenger engines	
36	C	17028		Detail of smokebox plates	10 Oct 1906		4'3" eight wheel coupled coal engine (20 1/2" cylinders) four-cylinder compound converted	
36	C	17040		General arrangement of vacuum brake gear	25 Oct 1906	7 Oct 1920	4'3" six coupled saddle tank coal engine	
36	C	17044		Radial axlebox for trailing wheels - journal 6 1/2" diameter x 14"	19 Oct 1906		6'0" 4-wheel coupled side tank, 5'6" 6-wheel coupled side tank & 4'3" 8-wheel c'pled shunting engine	
36	C	17047		Altered arrangement of leading, driving and intermediate spring gear	26 Oct 1906	10 Nov 1906	4'3" four cylinder eight wheels compound coal engine fitted with leading radial axlebox	
36	C	17059		End elevations	19 Oct 1906		5'0" six wheels coupled goods engine - cylinders 19" x 26"	Drawing inscribed "First engine built December 1906" signed by C. Whale
36	C	17063		Bracket on leading hornblock for radius rod shaft	6 Nov 1906		18" goods engine	
36	C	17064		Details of steam-pipes and flanges in smoke-box	26 Oct 1906		6'6" four wheels coupled passenger engine (Joy's valve motion) - Precursor class	
36	C	17078		Hinges for tenders	29 May 1920		Standard fitting	
36	C	17084		General arrangement of spring gear	22 Nov 1906	1912	4'3" four cylinder compound coal engine (19 1/2" cylinders) fitted with large boilers 5'2" diameter	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
36	C	17085		Steam and vacuum brake exhaust pipes in smokebox	21 Oct 1915	7 Jan 1937	Many classes of goods and passenger engines	
36	C	17093		Diagram of lubricators for connecting and coupling rods	2 Feb 1914		Many classes of goods and passenger engines	
36	C	17104		Water column - details	21 Dec 1906		Water column	
36	C	17106		General arrangement of Wakefield's sight feed lubricator	21 Dec 1906		6'6" four wheels coupled passenger engine (Joy's valve motion)	Also used for several other classes
36	C	17113		Detail of blower and steam jet valve	21 Dec 1906		5'0" 18" cylinder goods engine	
36	C	17116		Arrangement of steam jet pipes in smokebox	8 Jan 1907	17 Feb 1911	5'0" 18" cylinder goods engine	
36	C	17133		Details of axles and crank pins	21 Feb 1919	12 Feb 1919	6'6" four wheels coupled passenger engine (Joy's valve motion) also 6'6" 4-coupled Precursor class	
36	C	17172		Detail of piston rod gland with four studs	14 Mar 1907		18" cylinder goods and side tank engines	
36	C	17174		Standard whistle stand, details of valves and fittings	20 May 1909		Standard fitting	
36	C	17194		Detail of adjusting nuts for engine pull rods	13 Jun 1907		26 classes of goods and passenger engines	
36	C	17196		Arrangement and details of roofing bar brackets for boilers 5'2" diameter	25 Apr 1907		10 classes of goods and passenger engines	
37	C	17218		Details of swan neck for vacuum brake	3 May 1907		Special tank engine	
37	C	17239		Diagram sheet of standard fire irons for locomotives	16 Feb 1926	13 Mar 1939		
37	C	17245		Diagram sheet of glass for cab windows	16 Aug 1934		Many classes	
37	C	17261		General arrangement & details of steam brake	13 Jun 1907		7'0" four coupled compound engine "Alfred the Great" class & "Jubilee " class to red dimensions	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
37	C	17265		Diagram of wood brake blocks for engines & tenders	24 Jun 1907		Many classes	
37	C	17265		Details of brake blocks for engine & tender	13 Aug 1920		4'3" four cyl. compound coal engine	Part copy
37	C	17334		Diagram sheet of crossheads	10 Oct 1907		Many classes	
37	C	17342		Lever for regulator for locomotive boilers	17 Aug 1911		14 classes	
37	C	17398		Arrangement & details of cast steel wheels	14 Dec 1907		5'0 six wheel coupled goods engine	
38	C	17404		Details of piston & cylinder covers	30 Dec 1907		7'0" 4 w.c. passenger engine "Jubilee" class converted	
38	C	17408		Details of misc. castings	2 Jan 1908	3 Jun 1925	7'0" 4 w.c. passenger engine "Jubilee" class converted	
38	C	17411		Detail of cylinders	20 Dec 1907		7'0" 4 w.c. passenger engine "Jubilee" class converted	
38	C	17425		Details of vacuum alarm & indicator	21 Jan 1908			
38	C	17430		Details of piston rod & slide bars	27 Jan 1908		7'2" 4 w.c. passenger engine "Jubilee" class converted	
38	C	17434		Diagram of standard draw bars between engine & tender	31 Dec 1907			
38	C	17450		Alteration to ash pan door	3 Mar 1908		18" goods engine	Also used for engines built after 21 Jan 1908
38	C	17451		Arrangement & details of cylinder cock gear	25 Feb 1908		7'0" 4 w.c. passenger engine "Jubilee" class converted	Same as used for "Precursor" class
38	C	17457		Steel steam pipe			7'0" 4 w.c. passenger engine 18.5" cyls.	
38	C	17458		Details of draw gear & gear driving wheel	26 Feb 1908		Dynamometer car	
38	C	17464		Diagram sheet of engine crank pins	11 Jun 1930			
38	C	17523		Arrangement & details of steam brake gear	7 May 1919		7'0" 4 w.c. passenger engine "Jubilee" class converted	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
38	C	17533	Details of worm wheel, casing & brackets on gear driving shaft	14 May 1908		Dynamometer car	
38	C	17534	Details of sliding universal coupling for gear driving shaft	14 May 1908		Dynamometer car	
38	C	17535	Details for gear driving shaft	14 May 1908		Dynamometer car	
38	C	17559	Details of castings for wheel lifting gear	29 May 1908		Dynamometer car	
38	C	17560	Detail of wheel lifting gear	22 May 1908		Dynamometer car	
38	C	17576	Arrangement & details of brake gear fitted with cast iron blocks	8 Dec 1908		3000 gall. Tender	
38	C	17577	Details of hornblocks and spring pads for driving wheels	16 Jun 1908	19 Dec 1946	6'6" 4 w.c. passenger engines "Precursor" class.	Also used for "Experiment", "Prince of Wales" & "George the Fifth" classes & 6'0" 4 w.c. side tank pass. engines
38	C	17582	Detail of steam pipe in smokebox	28 Aug 1911		6'0" 6 w.c. passenger engine "Experiment" class	
38	C	17583	Details of steam pipes in smokebox			6'6" 4 w. c. passenger engine "Precursor" class	
38	C	17588	Details of forgings for paper driving gear	10 Jul 1908		Dynamometer car	
38	C	17591	Details of axles	10 Jul 1908		Standard tenders	
38	C	17592	Wrought details of spring & friction gear for paper drums	10 Jul 1908		Dynamometer car	
38	C	17599	Standard wash out nozzles for locomotive boilers	17 Jul 1908			
39	C	17604	Water pickup apparatus, detail of delivery pipe in tank	11 May 1920		Standard tenders	
39	C	17609	Details of paper drums for recording table	24 Jul 1908		Dynamometer car	
39	C	17610	Details of barrel spindles and tie rods for recording table	24 Jul 1908		Dynamometer car	
39	C	17611	Arrangement of friction clutches for paper rolls	24 Jul 1908		Dynamometer car	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
39	C	17612		Cast details, recording bracket, etc.	31 Jul 1908		Dynamometer car	
39	C	17613		Detail of recording table	24 Jul 1908		Dynamometer car	
39	C	17619		Details of castings for fire-box	6 Aug 1908		4'0" 4 coupled shunting engine	
39	C	17624		Smokebox for engines with rectangular slide valves	8 Jun 1900	31 Jul 1903	5'0" 6 wheels coupled side tank engine (18" cylinders)	
39	C	17634		Detail of hatch plate on frame over driving horn	5 Aug 1920		6'0" 6 coupled passenger engine, Prince of Wales class	
39	C	17635		Arrangement and details of feed water gear	8 Sep 1908		Standard tenders	
39	C	17643		Arrangement and details of driving gear for Boyer speed recorder	21 Sep 1908		Dynamometer car	
39	C	17660		General arrangement of traction recording dial and gear	9 Oct 1908		Dynamometer car	
39	C	17661		Arrangement of dial and casing for Boyer speed recorder	19 Oct 1908		Dynamometer car	
39	C	17662		Details of castings for mileage recorder	21 Oct 1908		Dynamometer car	
39	C	17667		Wrought details of traction and mileage gear	21 Oct 1908		Dynamometer car	
39	C	17690		Details for drawgear at leading end	12 Nov 1908		Dynamometer car	
39	C	17693		Arrangement of driving and recording gear	4 Nov 1908		Dynamometer car	
39	C	17700		Standard cylinder cock with plug valve	20 Nov 1908		Standard	
39	C	17702		Lubricator and connections on back of firebox	19 Nov 1908		28 classes of goods and passenger engine	
39	C	17708		Diagram of Wakefield's sight feed lubricator	3 Jun 1907		General	
39	C	17729		Arrangement and details of spark deflector plate in smokebox	22 Dec 1908		6'6" 4 coupled passenger engine, Precursor class	
39	C	17730		Details of footplate, corner bracket and footstep	22 Dec 1908		7'0" 4 coupled passenger engine, 18 1/2" cylinders	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
39	C	17737		Details of piston and cylinder covers	22 Dec 1908		4'3" 8 wheel coupled coal engine, Class C1, cylinders 18 1/2" x 24"	
39	C	17745		Details of drawgear at leading end	8 Jan 1909		Dynamometer car	
39	C	17752		Details of hornplates, hornblock tie bars, life guards, handrails, etc.	20 Jan 1909		Standard tenders	
39	C	17769		General arrangement of longitudinal stays	16 Feb 1909		8 classes of goods and passenger engine	
39	C	17770		General arrangement of longitudinal stays	8 Apr 1909	1921	10 classes of goods and passenger engine	
39	C	17783		Steam valve and stuffing box for Gresham and Craven's injector	12 Mar 1909		Steam motor carriage	
39	C	17790		Details of steam blower for locomotives	none		c40 classes of goods and passenger engine	
40	C	17831		Details of piston, and cylinder and steam chest covers	11 May 1909	13 Aug 1940	4'3" 8 wheels coupled coal engine, 20 1/2" cylinders	
40	C	17871		Details of axlebox	none	Mar 1916	3000 gallon tender	
40	C	17871	PC	Details of step with white metal bearing	30 Oct 1912		3000 gallon tender with axleboxes for axles without end collars	
40	C	17874		Details and arrangement for locking doors of tool boxes	24 Jun 1909		Side tank engines	
40	C	17889		Wakefield's sight-feed lubricator	22 May 1909		General fitting	
40	C	17898		General arrangement of smokebox	14 Jul 1909		4'3" 8 wheels coupled coal engine, 20 1/2" cylinders with 24" stroke	
40	C	17912		General arrangement of Wakefield's sight-feed lubricator	17 Aug 1909		4'3" 8 wheels coupled coal engine, 20 1/2" cylinders	
40	C	17913		Arrangement of lubricators and oil pipes	23 Sep 1909		4'3" 8 wheels coupled coal engine, 20 1/2" cylinders	



Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
40	C	17914	Steam brake gear, driver's brake valve	3 Nov 1909	14 Aug 1946	4'3" 8 wheels coupled coal engine, 20 1/2" cylinders	
40	C	17916	Diagram of steam pipes	13 Sep 1909		4'3" four cylinder compound coal engine, with 5'2" boilers	
40	C	17934	Details of cylinders	15 Oct 1909		Rail motor coach 11" x 16" cylinders	
40	C	17945	Details of castings for sand gear	16 Apr 1915		6'0" 6 coupled passenger engine, Experiment and Prince of Wales classes	Also used for 5'0" six coupled goods engines (19" x 26" cylinders)
40	C	17947	Details of piston head cylinder covers and steam chest cover	1 Nov 1909		Rail motor coach 11" x 16" cylinders	
40	C	17954	Details of regulator valve and connections	8 Nov 1909		Rail motor coach 11" x 16" cylinders	
40	C	17960	Arrangement of sand gear	12 Nov 1909		6'0" 6 coupled passenger engine, Experiment and Prince of Wales classes	
40	C	17961	Details of forgings for sand gear	28 Apr 1920		Prince of Wales class	
40	C	17961	Details of forgings for sand gear	16 Apr 1915		6'0" 6 coupled passenger engine, Experiment and Prince of Wales classes	
40	C	17965	Detail of motion plate	22 Nov 1909		Rail motor coach 11" x 16" cylinders	
40	C	17967	Detail of axlebox (sliding type)	7 Sep 1909	23 May 1938	3000 gallon tender 10" x 5" journal	
40	C	17967 PC	Detail of axlebox step with white metal bearing	30 Oct 1912		3000 gallon tender with sliding type axleboxes	
40	C	17971	Detail of boiler	14 Dec 1909		Rail motor coach 11" x 16" cylinders	
40	C	17974	Details of piston rod slide bars and crosshead	14 Dec 1909		Rail motor coach 11" x 16" cylinders	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
40	C	17976		General arrangement and details of exhaust pipes	14 Dec 1909		Rail motor coach 11" x 16" cylinders	
40	C	17984		Exhaust pipe castings for feed water heater	18 Dec 1909		6'0" side tank engine	
40	C	17988		General arrangement and details of ashpan	18 Dec 1909		Rail motor coach 11" x 16" cylinders	
40	C	17992		Details of hornblocks, axleboxes and tie-bars	18 Dec 1909		Rail motor coach 11" x 16" cylinders	
40	C	17993		Details of connecting rod	24 Feb 1913		Rail motor coach 11" x 16" cylinders	
40	C	17994		Forgings for connecting rod	4 Jan 1910		Rail motor coach 11" x 16" cylinders	
40	C	17995		Details of reversing shaft, rod and lever	4 Jan 1910		Rail motor coach 11" x 16" cylinders	
41	C	18001		Details of water tank under coach (between accumulators)	4 Jan 1910		Rail motor coach 11" x 16" cylinders	
41	C	18002		Details of valve motion	4 Jan 1910		Rail motor coach 11" x 16" cylinders	
41	C	18004		Details of coupling rods	4 Jan 1910		Rail motor coach 11" x 16" cylinders	
41	C	18006		Details of axles and crank pins	4 Jan 1910		Rail motor coach 11" x 16" cylinders	
41	C	18011		Arrangement of water tanks	14 Jan 1910		Rail motor coach 11" x 16" cylinders	
41	C	18012		Details of water tank under coach	14 Jan 1910		Rail motor coach 11" x 16" cylinders	
41	C	18013		Details of eccentrics and eccentric rods	17 Jan 1910		Rail motor coach 11" x 16" cylinders	
41	C	18016		Details of lagging for boiler	12 Jan 1910		Rail motor coach 11" x 16" cylinders	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
41	C	18021	Feed valve castings and details for feed water heater	22 Jan 1910		6'0" side tank engine	
41	C	18030	Arrangement and details of sand gear	1 Feb 1910		Rail motor coach 11" x 16" cylinders	
41	C	18038	Details of castings	3 Feb 1910		3000 gallon tender with water bottom tank and sloping bunker	
41	C	18040	Arrangement and details of cylinder cock gear	3 Feb 1910		Rail motor coach 11" x 16" cylinders	
41	C	18041	General arrangement and details of steam pipes	3 Feb 1910		Rail motor coach 11" x 16" cylinders	
41	C	18043	Details of forgings	3 Feb 1910		3000 gallon tender with water bottom tank and sloping bunker	
41	C	18047	Details of wheels	7 Feb 1910	5 Mar 1914	5'6" 6 coupled side tank engine	
41	C	18069	Details of forgings, pipes and castings for feedwater heater	17 Feb 1910		6'0" side tank engine	
41	C	18075	Details of frame plates	15 Feb 1910	18 Dec 1946	6'6" George V Class, 4 coupled passenger engine, fitted with superheater	
41	C	18076	Boiler	18 Jul 1922	22 Mar 1939	6'6" George V Class, 4 coupled passenger engine	
41	C	18077	Details of reversing shaft, brackets and lever	4 Mar 1910		6'6" George V Class, fitted with superheater	Also Experiment class
41	C	18078	Blast pipes for passenger engines, sheet 3	1 May 1911		5 classes of engine	
41	C	18088	Diagram for setting valves	24 Feb 1910		Various 4'3" 8 wheels coupled coal engines	
41	C	18090	Detail of air vessel, pipes and connections for feed pump, forgings, etc.	19 Feb 1910		6'0" 4 wheel coupled side tank engine (fitted with feed water heater)	
41	C	18097	Details of frames for wire gauze	28 May 1920		3000 gallon tender with water bottom tank and sloping bunker	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
41	C	18098		Details of piston rod and slide bars	3 Mar 1910	25 Feb 1941	5'6" 6 coupled side tank engine	
42	C	18101		General arrangement of feed pumps	2 Mar 1910		6'0" 4 w.c. side tank engine fitted with feed water heater	
42	C	18104		General arrangement of feed water heater	5 Mar 1910		6'0" side tank engine	
42	C	18105		General arrangement of regulator gear	9 Mar 1910		Rail motor coach cyls. 11"x16"	
42	C	18106		Details of Greshams No. 25 combination ejector	2 Mar 1910		Rail motor coaches	
42	C	18107		Details of regulator gear	2 Mar 1910		Rail motor coach cyls. 11" x 16"	
42	C	18112		Arrangement & details of feed water gear	12 Mar 1910		3000 gall. tender with sloping bunker & water bottom tank	
42	C	18115		Arrangement of pipes from feed pumps to footplate, also clack boxes on boiler & stay for delivery pipes			6'0" 4 w.c. side tank engine (fitted with feed water heater)	
42	C	18116		Details of covering plates	2 Oct 1913		6'6" George V Class, 4 coupled passenger engine	
42	C	18116 PC		Details of covering and stiffening plates	24 Mar 1910		6'6" George V Class, fitted with superheater	
42	C	18117		Details of piston rod and slide bars	24 Mar 1910	26 Feb 1941	6'6" George V Class, 4 coupled passenger engine, fitted with superheater	
42	C	18124		Details of steel castings	5 Apr 1910		6'6" "George the Fifth" class fitted with superheater	
42	C	18125		Detail of steam chest covers	28 Apr 1920	3 Sep 1936	6'6" George V Class, 4 coupled passenger engine, fitted with superheater	
42	C	18126		Detail of bracket for rocking lever	26 Sep 1917		6'6" George V Class, 4 coupled passenger engine, fitted with superheater	Also used for 6'0" Prince of Wales and 4'3" 8 coupled coal engine G1 class
42	C	18128		Detail of side tanks	31 Jul 1913		5'6" 6 w.c. side tank engine	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
42	C	18133	Arrangement & details of cylinder cock gear	13 Apr 1910		6'6" 4 w.c. "Geoge the Fifth" class with superheater	
42	C	18134	Details of cylinder cock gear (cocks and bracket)	11 Feb 1919		6'6" George V Class	
42	C	18135	Auto vacuum brake, elbows at leading end	12 Apr 1910		6'6" George V Class, fitted with superheater	
42	C	18136	Details of rocking shaft and valve rods	13 Apr 1910	6 Jun 1911	6'6" George V Class, fitted with superheater	Also used for Prince of Wales class
42	C	18141	Details of air pipes on tank	14 Apr 1910		3000 gall. tender with sloping bunker & water bottom tank	
42	C	18148	Hornblocks & spring gear for coupled wheels	11 Apr 1910	19 Dec 1946	5' 6" 6 w.c. side tank engine	
42	C	18154	Details of casing over hand brake pull rod	28 May 1920		3000 gall. tender with sloping bunker & water bottom tank	
42	C	18155	Details of casing over pick up pull rod	28 May 1920		3000 gall. tender with sloping bunker	
42	C	18156	Details of connecting pipes and flanges for steam pipes	25 May 1915		6'6" George V Class	
42	C	18158	Arrangement & detail of lubricating pipes etc: for cylinders	16 Apr 1910		6'6" "Precursor" class fitted with superheater	
42	C	18161	Details of valve motion	5 Jan 1915		5'6" 6 w.c. side tank engine	
42	C	18162	Details of reversing shaft brackets & lever	26 Apr 1910		5'6" 6 w. c. side tank engine. Also used for 6 other classes	
42	C	18163	Details of steam pipes	1 Jul 1910		6'6" George V Class, fitted with superheater	One engine only for experimental purposes
42	C	18165	Details of bracket for carriage heating pipe	26 Apr 1910		3000 gall. tender with water bottom tank and sloping bunker	
42	C	18166	Details of covering plates, beading angles & fall plate	28 May 1920	29 Apr 1944	3000 gall. tender with sloping bunker	
42	C	18168	Details of steel castings	22 Apr 1910		5'6" 6 w.c. side tank engine	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
42	C	18173	Regulator shaft under coaches			Train for Watford, St. Albans & Rickmansworth branches	
42	C	18174	Details of smokebox & superheater damper plates	3 May 1910	25 Nov 1918	6'6" "George the Fifth" class fitted with superheater	
42	C	18176	Details of handrails and vacuum pipes	14 May 1910	25 Nov 1918	6'6" George V Class, 4 coupled passenger engine, with cylinders fitted with piston valves	
42	C	18177	Misc. details for side tanks & bunker	14 Feb 1911	21 Sep 1922	5'6" 6 w.c. side tank engine	
42	C	18178	Detail of trailing tank & coal bunker	7 May 1910		5'6" 6 w.c. side tank engine	
42	C	18183	Arrangement & details of reversing gear	19 May 1910	18 Oct 1935	5'6" 6 w.c. side tank engine	
42	C	18185	Details of axles & crank pins	18 May 1910		5'6" 6 w.c. side tank engine	
42	C	18190	Detail of front cab windows	27 May 1910	16 Sep 1937	5'6" 6 w.c. side tank engine	
43	C	18201	Arrangement & details of Randle's experimental brick arch	3 Jun 1910		6'6" 4 w.c. passenger engine "Precursor" class	
43	C	18208	Details of forged stays for boiler	8 Jun 1910		5'6" 6 w.c. side tank engine	Longitudinal & firebox cross stays material as in BSS report 24 part 6 1921 spec. No. 16, 26/30 tons tensile
43	C	18213	Arrangement of lubricators & pipes	11 Jul 1912		6'6" "George the Fifth" class cyls. 20.5" dia.x 26" stroke	
43	C	18214	Arrangement & details of steam valve for large ejector: vacuum brake	18 Jun 1910		4'0" shunting engine	
43	C	18216	Smokebox plates & door	18 Jun 1910	29 Mar 1911	5'6" 6 w.c. side tank engine	
43	C	18217	Detail of boiler	24 Jun 1910	3 Apr 1939	5'6" 6 w.c. side tank engine with superheater	
43	C	18217	Detail of boiler tube plates	1 Jul 1910		5'6" 6 w.c. side tank engine without superheater	Rider to 18217
43	C	18223	General arrangement & details of damper gear	1 Jul 1910		5'6" 6 w.c. side tank engine	
43	C	18225	Details of footplate gate	1 Jul 1910		5'6" 6 w.c. side tank engine	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
43	C	18229		Details of boiler mountings	14 Jul 1910		5'6" 6 w.c. side tank engine	
43	C	18235		Details of steam jet pipes in smokebox	28 Jul 1910		5'6" 6 w.c. side tank engine: without superheater	
43	C	18238		Details of cylinders 18.5" dia. X 26" stroke	29 Jul 1910		5'6" 6 w.c. side tank engine: without superheater	
43	C	18242		Arrangement & details of cylinder cock gear	10 Aug 1910		5'6" 6 w.c. side tank engine	
43	C	18244		Details of castings for water pick up apparatus	10 Aug 1910		5'6" 6 w.c. side tank engine	
43	C	18247		Detail of cab	10 Aug 1910		5'6" 6 w.c. side tank engine	
43	C	18251		Details of valves & liners	26 Aug 1910		6'6" "Precursor" class fitted with piston valves & 5'6" 6 w. c. side tank engines	
43	C	18253		Details of metallic packing	No date	30 May 1914	5'6" 6 w.c. side tank engine: non- superheated	
43	C	18256		Details of wood block & arrangement of pressure gauges on right hand side of cab	24 Apr 1915		"George the Fifth" class, "Prince Of Wales" class, 5'6" 6 w.c. side tank & 4'3" 8 w.c.goods G1	Superheater engines
43	C	18260		Water gauge for boiler	5 Nov 1910		5'6" 6 w.c. side tank engine	
43	C	18266		Driving & trailing wheels	3 Jan 1916		6'6" 4 w. c. passenger engines "Precursor" & "George the Fifth" classes	
43	C	18267		Cover plates for pipes through footplate for engines fitted with hot water injectors & exhaust steam injectors	16 Sep 1910		5'6" 6 w.c. side tank, 6'6" 6 w.c. 4-cyl. "Claughton" class with exhaust steam injectors 1924 type	
43	C	18268		General arrangement & details for working Wakefields mechanical lubricator with ratchet gear	29 Sep 1910		6'6" 4 w.c. passenger engine "George the Fifth" class	
43	C	18269		General arrangement of Crewe injectors	12 Sep 1910		5'6" 6 w.c. side tank engine	
43	C	18272		Detail of piston for cylinders fitted with liners	16 Sep 1910	16 Apr 1941	4'6" 4 w.c. passenger engine	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
43	C	18273	Detail of front cylinder cover for cylinders fitted with liners	16 Sep 1910	31 Jul 1942	4'6" 4 w.c. passenger engine	
43	C	18274	Details of cover for back end of cylinders fitted with liners	15 Sep 1910		4'6" 4 w.c. passenger engine	
43	C	18275	Details of lagging for boiler	12 Sep 1910		5'6" 6 w.c. side tank engine	
43	C	18277	Arrangement & details of feed water gear	12 Sep 1910	3 Aug 1911	5'6" 6 w.c. side tank engine	
43	C	18283	Details of air valves for automatic vacuum brake	27 Sep 1910	14 Apr 1919	5'6" 6 w.c. side tank engine	
43	C	18286	Automatic vacuum brake details of steam valves	4 Oct 1910	15 Aug 1946	5'6" 6 w.c. side tank engine	
43	C	18288	Details of sand gear	6 Oct 1910		5'6" 6 w.c. side tank engine	
43	C	18290	Details of castings for feed water heater	10 Oct 1910		5'6" 6 w.c. side tank engine	
43	C	18291	Details of steam box & clack box for hot water injectors	10 Oct 1910		5'6" 6 w.c. side tank engine	
43	C	18294	Arrangement & details of vacuum reservoir	12 Oct 1910		5'6" 6 w.c. side tank engine	
43	C	18296	General arrangement of sand gear	13 Oct 1910		5'6" 6 w.c. side tank engine	
43	C	18298	Regulator handle & rod	13 Oct 1910		5'6" 6 w.c. side tank engine	
44	C	18300	Details of pipes etc. for feed water heater (required for engines fitted with hot water injectors only)	14 Oct 1910		5'6" 6 coupled side tank engine	
44	C	18304	Details of steam pipes and flanges in smoke box	12 Oct 1910		5'6" 6 coupled side tank engine with superheater	
44	C	18306	Details of hand-rails and vacuum pipes for engine with superheater	18 Oct 1910		5'6" 6 coupled side tank engine	
44	C	18313	Arrangement and details of 24" vacuum brake sack	4 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18314	Details of steam pipes in smokebox	4 Nov 1910	16 Jan 1934	5'6" 6 coupled side tank engine with superheater	



Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
44	C	18316	General arrangement of feed water heater	5 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18318	Arrangement of lubricator and pipes	4 Nov 1910		5'6" 6 coupled side tank engine without superheater	
44	C	18319	Details of release valve and connections for vacuum sack	4 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18321	General arrangement of auto vacuum brake gear and carriage heating apparatus (elevation and plan)	4 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18322	General arrangement of auto vacuum brake pipes and carriage heating apparatus (end views)	4 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18325	Arrangement and details of hot water injectors	5 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18327	Hot water injector (Davies & Metcalfe's) details of flanges	5 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18331	Cast details for blast pipe fitted with adjustable cone	7 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18332	Wrought detail gear for working adjustable cone in blast pipe	7 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18339	General arrangement of feed water gear for engines fitted with Crewe injectors	11 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18341	General arrangement of variable blast pipe	18 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18343	Arrangement and details of superheater damper gear	11 Nov 1910		5'6" 6 coupled side tank engine	
44	C	18344	Details of superheater damper plates	11 Nov 1910		5'6" 6 coupled side tank engine with superheater	
44	C	18346	Diagram of S and P pipe with flange branch to suit standard sluice valves				Water pipes (possibly for washing out)
44	C	18355	Standard 15-ton hook, with ball bearings	6 Dec 1910	24 Oct 1912	Crane hook	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
44	C	18359	Details of variable blast pipes	15 Dec 1910		George V and Queen Mary classes	
44	C	18360	General arrangement of smokebox	12 Dec 1910		5'6" 6 coupled side tank engine without superheater	
44	C	18366	Hydraulic lift for footbridge between London Road and Mayfield stations	29 Dec 1910		Footbridge	
44	C	18366	General arrangement of smokebox	2 Jan 1911	8 Nov 1918	5'6" 6 coupled side tank engine with superheater	
44	C	18367 PC	Diagram of asbestos mattresses for cylinders and cylinder covers	19 Mar 1921	3 Jan 1911	Prince of Wales class	
44	C	18367	Asbestos mattresses for cylinders	21 Dec 1910	19 Nov 1913	Many classes	
44	C	18369	Arrangement and detail of drain cup and pipe for snifting valve	none		5'6" 6 coupled side tank engine	
44	C	18370	Details of bracket etc. for variable blast pipe gear	29 Dec 1910		George V and Queen Mary classes	
44	C	18376	Arrangement and details of gear for straight plate springs	4 Jan 1911	8 May 1943	3000 gallon tender	
44	C	18379	General arrangement and details for working "Trusty" mechanical lubricator	31 Dec 1910		6'6" George V class	
44	C	18380	Details of wrought work for variable blast pipe gear	4 Jan 1911		George V and Queen Mary classes	
44	C	18382	Details of bunker doors	7 Jan 1911		3000 gallon tender with water bottom tank and sloping bunker	
44	C	18383	New arrangement of steel trailing hornblocks, etc.	3 Jan 1911		7'0" 4 wheel coupled compound passenger engine	
44	C	18385	Standard vacuum brake hose coupling and gauges	13 Jan 1911		Standard fitting	
44	C	18387	General arrangement of blast pipe gear	20 Jan 1911		George V and Queen Mary classes	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
44	C	18389		Details of water connection between side tank and bunker	21 Jan 1911		5'6" 6 coupled side tank engine	
44	C	18395		Arrangement and detail of notice plates for working exhaust steam valve, cylinder cock and damper rods	29 Jan 1911		5'6" 6 coupled side tank engine	
44	C	18397		Diagram sheet of hornblocks - sheet 3	31 Jan 1911		5'6" 6 coupled side tank engine and 6'6" 6-coupled passenger engine (4 cylinders) ("Claughton")	
45	C	18405		Arrangement of steam jet pipes in smoke-box	14 Feb 1911		5'0" 6 coupled goods engine (cylinders 18" diameter)	
45	C	18406		Diagram of boiler shewing superheater header and tubes		none	5'6" 6 coupled side tank engine	
45	C	18425		Diagram of boiler shewing superheater valves	7 Mar 1911		6'0" 6 coupled passenger engine Prince of Wales class	
45	C	18426		Diagram showing valve setting for locomotive cylinders	22 Feb 1911		Many classes of engine	
45	C	18431		Details for boiler		13 Mar 1911	6'0" 6 coupled passenger engine Prince of Wales class (Experiment class superheated)	
45	C	18433		Arrangement and details for working "Wakefield's" mechanical lubricator		13 Mar 1911	6'6" 4 coupled passenger engine, Precursor class	Some items the same as for 6'6" George V class
45	C	18434		Arrangement and details for working "Wakefield's" mechanical lubricator		13 Mar 1911	6'0" 6 coupled passenger engine Experiment class	Also used for 6'0" Prince of Wales class
45	C	18437		General arrangement of whistle stand		21 Mar 1911	5'6" 6 coupled side tank engine	
45	C	18446		Arrangement and detail of standard fire-hole door		21 Mar 1911	4'6" 4 coupled side tank engines for motor trains	
45	C	18447		Arrangement and detail of exhaust steam surface feed water heater		21 Mar 1911	5'6" 6 coupled side tank engine	
45	C	18451		Diagram of protection plate on inside of smoke-box front		29 Mar 1911	11 classes of engine	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
45	C	18460	Details of footplate, corner brackets and footsteps	29 Mar 1911	July 1912	6'0" Prince of Wales class, Experiment class fitted with steam brake	
45	C	18468	General overview of engine, first built January 1911	21 Jan 1911		5'6" 6 coupled side tank engine with superheater, cylinders 24" diameter, 26" stroke	
45	C	18477	Outline of frames	27 Apr 1911		4'3" 8 coupled side tank shunting engine	
45	C	18489	Detail of cab	5 May 1911		4'3" 8 coupled side tank shunting engine	
45	C	18491	Detail of trailing tank and coal bunker	1 May 1911	2 Feb 1920	4'3" 8 coupled side tank shunting engine	
45	C	18493	Detail of covering plates	20 Dec 1920		4'3" 8 coupled side tank shunting engine	
46	C	18501	Detail of side tanks	13 May 1911		4'3" 8 coupled side tank shunting engine	
46	C	18503	Experimental arrangement for "Fournier's" distance Pyrometer	24 Mar 1911		6'6" 4 coupled George V class	
46	C	18504	Arrangement and details of reversing gear	16 May 1911		4'3" 8 coupled side tank shunting engine	
46	C	18514	General arrangement of brake gear	6 May 1911		4'3" 8 coupled side tank shunting engine	
46	C	18515	Details of brake gear	22 Jan 1930	1 Nov 1943	4'3" 8 coupled side tank shunting engine	
46	C	18520	Arrangement and details for fixing cable terminals for electric bell	27 Jan 1927		4'6" 8 wheels coupled side tank engine	
46	C	18521	Miscellaneous castings	11 May 1911		4'3" 8 coupled side tank shunting engine	
46	C	18522	Details of piston rod and slide bars	24 May 1911	26 Feb 1941	6'0" Prince of Wales class	
46	C	18524	Arrangement and details of trailing sand gear	24 May 1911		4'3" 8 coupled side tank shunting engine	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
46	C	18527		Diagram of regulator rod under coaches	1 Jun 1911		Train for Holywell line	
46	C	18530		Details of lagging and filling up plates for cylinders	16 Apr 1915		6'0" Prince of Wales class	
46	C	18532		Arrangement and details of feed water gear	26 May 1911		4'3" 8 coupled side tank shunting engine	
46	C	18533		General arrangement of smokebox	24 May 1911		4'3" 8 coupled side tank shunting engine, cylinders 20 1/2" diameter, 24" stroke	
46	C	18534		Arrangement and detail of cylinder cock gear	9 Jun 1911		6'0" Prince of Wales class	
47	C	18556		Arrangement of lubricators and oil pipes	9 Jun 1911	12 Oct 1917	4'3" 8 coupled side tank shunting engine	
47	C	18557		Details of lagging for boiler	29 May 1911		4'3" 8 coupled side tank shunting engine	
47	C	18559		General arrangement and details of damper gear	15 Jun 1911	10 Oct 1917	4'3" 8 coupled side tank shunting engine	
47	C	18567		Details of steam pipes	17 Jun 1911		6'0" Prince of Wales class fitted with superheater	
47	C	18568	Rider	Diagram shewing etc. for which rodding is required	none		Motor trains	2 branches only: Longridge, and Oldham and Delph; spare carriages
47	C	18568		Diagram shewing etc. for which rodding is required	26 Jun 1911		Motor trains	22 branches listed
47	C	18569		Arrangement of steam brake exhaust pipes	15 Jun 1911		4'3" 8 coupled side tank shunting engine	
47	C	18570		Details of handrails and vacuum pipes	15 Jun 1911		4'3" 8 coupled side tank shunting engine	
47	C	18574		Details of steam pipes in smokebox	14 Jun 1911		6'0" Prince of Wales class	
47	C	18575		Details of hand rails and vacuum pipes	15 Jun 1911		6'0" Prince of Wales class	
47	C	18579		Detail of spring (plates straight when loaded)	9 Sep 1918	11 Mar 1943	3000 gallon tender	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
47	C	18579		Detail of spring (plates straight when loaded)	23 Nov 1938	23 Feb 1943	3000 gallon tender	
47	C	18582		Arrangement and detail of drain cup and pipe from snifting valves and packing plates for smokebox	26 Jun 1911		6'0" Prince of Wales class	
47	C	18584		Diagram of regulator rodding under engine and coaches (elevation)	none		Motor trains for Willesden and Earls Court	
47	C	18584		Diagram of regulator rodding under engine and coaches (plan)	29 Jun 1911		Motor trains for Willesden and Earls Court	
47	C	18585		General arrangement of injectors	27 Jun 1911		4'3" 8 coupled side tank shunting engine	
47	C	18586		General arrangement of auto vacuum brake gear (elevation and plan)	28 Jun 1911	29 Jan 1945	4'3" 8 coupled side tank shunting engine	
47	C	18587		General arrangement of auto vacuum brake pipes (end views)	28 Jun 1911		4'3" 8 coupled side tank shunting engine	
47	C	18588		General arrangement and detail of cylinder cock gear	30 Jun 1911	19 Aug 1914	4'3" 8 coupled side tank shunting engine	
47	C	18589		Arrangement of regulator gear at leading end	29 Jun 1911		4'6" 4 coupled side tank engine for motor trains	
47	C	18590		Details of regulator gear at leading end	16 Feb 1912		4'6" 4 coupled side tank engine for motor trains	
47	C	18591	PC	Diagram shewing position of steam pipe to blower in smokebox	29 Nov 1920		Prince of Wales class	
47	C	18591		General arrangement of smokebox	27 Apr 1920		6'0" Prince of Wales class	
48	C	18601		New method of lubrication for connecting & coupling rods	22 Jul 1911		6'6" 4 w.c. "George the Fifth" class	
48	C	18602		Locomotive weighing spanner for 1 1/8" nuts	25 Jul 1911			
48	C	18609		Details of air relief pipes on bunker	20 Jul 1911	26 Sep 1922	5'6" 6 w.c. side tank	
48	C	18611		Arrangement & details of fire hole door	20 Jul 1911		Steam motor carriage cyls. 9.5" dia. x 15" stroke	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
48	C	18613		Arrangement & detail of reversing rod & guide bracket	23 Mar 1916		5'0" 6 w.c. goods engine cyls. 19" x 26"	
48	C	18618		Detail of new steam jet pipe in smokebox	No date		6'6" "Queen Mary" class	
48	C	18621		Diagram of steam pipes	3 Aug 1911		4'3" 8 w.c coal engine cyl. 20.5" with superheater with flat valves	
48	C	18622		Details of steam pipes & flanges in smokebox	3 Aug 1911		4'3" 8 w.c coal engine cyl. 20.5" with superheater	
48	C	18623		Blast pipe	3 Aug 1911		4'3" 8 w.c coal engine cyl. 20.5" with superheater	
48	C	18636		Header casting for superheater	14 Dec 1912	26 Sep 1924	5'6" 6 w.c. side tank engine	
48	C	18637		Diagram showing principal dimensions of standard cabs	17 Aug 1911		"Claughton" class, 4'3" 8 w.c. with 5'2" boiler coal engine & side tank engine & 5'6" 6 w.c. tank	Sheet 3
48	C	18640		Details of regulator gear at trailing end for engines fitted with leading end regulator gear	18 Mar 1925		4'6" 4 w.c. side tank engine for motor trains	
48	C	18642		Arrangement of regulator gear at trailing end for engines fitted with leading end regulator gear	18 Mar 1925		4'6" 4 w.c. side tank engine for motor trains	
48	C	18643		Arrangement for lubricating sliding faces on radial trucks for locomotives	10 May 1912		Various classes	
48	C	18645		Details of hand rails & vacuum pipes	14 Sep 1911	18 Jun 1918	4'3" 8 w.c. coal engine superheated 20.5"x 24" cyls. Wwth piston valves	
48	C	18647		Whistle gear for engines fitted with regulator gear at leading & trailing ends	21 Jan 1927		Motor trains (western 'A' division)	
48	C	18648		Castings for steam & hand brake gear	7 Sep 1911		Standard tenders	
48	C	18649		Forgings for steam & hand brake gear	7 Sep 1911		Standard tenders	
49	C	18651		Arrangement & details of superheater damper gear	18 Sep 1911	18 Jun 1918	4'3" 8 w. c. coal engine superheater 20.5"x 24" cyls.	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
49	C	18652	Detail of piston & cylinder covers	16 Sep 1911	11 Jul 1950	4'3" 8 w. c. coal engine superheater 20.5"x 24" cyls. with piston valves	
49	C	18653	Detail of smoke box and superheater damper plates	16 Sep 1911	18 Jun 1918	4'3" 8 w. c. coal engine superheater 20.5"x 24" cyls. with slide valves	
49	C	18654	Details of castings	11 Sep 1911		5'0" 6 w.c. goods engine cyls. 19" x 26" fitted with "Phoenix" superheater	Sheet 1
49	C	18655	Details of castings	11 Sep 1911		5'0" 6 w.c. goods engine cyls. 19" x 26" fitted with "Phoenix" superheater	Sheet 2
49	C	18656	General arrangement & details for filling hole lid cramp	25 Sep 1911		5'6" 6 w.c. side tank engine	
49	C	18657	Details of forged stays for boiler	9 Apr 1931		"Claughton" class	
49	C	18658	Detail of footplate	2 Oct 1911	19 Aug 1940	4'3" 8 w.c. coal engine converted to superheater 20.5" x 24" cyls. with piston valves	
49	C	18660	Detail of cylinders	4 Oct 1911		4'3" 8 w.c. coal engine converted to superheater 20.5" x 24" cyls. with piston valves	
49	C	18668	Details of piston rod & slide bars	10 Oct 1911	19 Dec 1946	4'3" 8 w.c. coal engine converted to superheater 20.5" x 24" cyls. with piston valves	
49	C	18669	General arrangement of smokebox	10 Oct 1911	18 Jun 1918	4'3" 8 w.c. coal engine converted to superheater	
49	C	18670	Detail of leading axlebox	14 Mar 1929	26 Feb 1947	4'3" 8 w.c. coal engine	
49	C	18671	Detail of intermediate axlebox	14 Mar 1929	26 Feb 1947	4'3" 8 w.c. coal engine	
49	C	18672	Detail of trailing axlebox	14 Mar 1929	1 Oct 1942	4'3" 8 w.c. coal engine	



Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
49	C	18672		Trailing axle box (7" Dia. Journal)	No date		4'3" 8 w.c. coal superheated G1 & 4'3" 8 w.c. side tank shunting engine	This drg. replaces drg. of the same number
49	C	18673		Leading & driving axle box	6 Oct 1911	29 Nov 1944	5'0" 6 w.c. 18" cyl. goods engine	Also leading axle box for 5'0" 6 w.c. side tank engine
49	C	18674		Diagram sheet of axleboxes	6 Oct 1911	6 Dec 1944	10 classes of locomotive	Sheet No. 2
49	C	18675		Arrangement & details of gear for working "Trusty" mechanical lubricator	21 Oct 1911		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. with piston valves	
49	C	18676		Details of steam pipes & flanges	31 Oct 1911		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. with piston valves	
49	C	18677		Details of steam pipes	31 Oct 1911		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. with piston valves	
49	C	18678		Details of brasses with white metal lining for locomotive connecting rods	19 Oct 1911	8 Jan 1914	Many classes of locomotives	
49	C	18679		Details of smokebox plates & covering plates at front end when fitted with "Phoenix" superheater	23 Oct 1911		5'0" 6 w. c. goods engine cyls, 19" x 26"	
49	C	18680		General arrangement of smokebox fitted with "Phoenix" superheater	23 Oct 1911		5'0" 6 w. c. goods engine cyls, 19" x 26"	
49	C	18684		General arrangement: end views & sections	14 Sep 1911		4'3" 8 w.c. side tank shunting engine	
49	C	18685		Detail of lagging plate for cyls.	4 Jul 1915		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. With piston valves	
49	C	18686		Arrangement & detail of drain cup & pipe from snifting valves	27 Oct 1911		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. With piston valves	
49	C	18688		Diagram showing arrangement of tubes in locomotive tube plates	2 Oct 1911		5 classes of locomotives	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
49	C	18689	General arrangement & details of cylinder cock gear	23 Oct 1911		4'3" 8 w.c. coal engine superheated 20.5" x 24" cyls. with piston valves	
50	C	18703	Detail of smokebox and superheater damper plates	7 Nov 1911		4'3" 8 wheel coupled coal engine (superheated) 20 1/2" x 24" cylinders with piston valves	
50	C	18707	Arrangement of pyrometer, lubricators and pipes	18 Nov 1911		4'3" 8 wheel coupled coal engine (superheated) 20 1/2" x 24" cylinders with piston valves	
50	C	18708	Details of rocking shaft and valve rods	18 Dec 1911		4'3" 8 wheel coupled coal engine (superheated) 20 1/2" x 24" cylinders with piston valves	
50	C	18711	Details of reversing shaft and lever	11 Dec 1911		4'3" 8 wheel coupled coal engine (superheated) 20 1/2" x 24" cylinders with piston valves	
50	C	18717	Details of Davies and Metcalfe No. 10 hot water injector	18 Nov 1911		Standard fitting	
50	C	18718	Standard mud pocket and cover for boiler	9 Mar 1925		Standard fitting	
50	C	18721	Detail of additional lagging on side tanks	23 Nov 1911		5'6" 6 coupled side tank engine	
50	C	18722	Brackets for large and small signalling staffs	5 Aug 1920		Standard fitting for 11 classes of locomotive	
50	C	18728	Arrangement of auto vacuum brake sack etc. for engines working motor trains	1 Dec 1912	17 Apr 1912	4'6" 8 wheeled side tank engine	
50	C	18732	Details of castings	1 Dec 1912	17 Apr 1912	4'6" 8 wheeled side tank engine fitted with automatic vacuum brake	
50	C	18733	Details of forgings and plate work	12 Feb 1912		Standard 3000 gallon tender (old pattern without sloping bunker) fitted with vacuum sack & reservoir	
50	C	18735	Detail of balance weight on reversing shaft	18 Dec 1911		4'3" 8 wheel coupled side tank shunting engine	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
50	C	18742	Detail of castings for radial truck	20 Dec 1911		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	Also for 4'3" 8 wheel coupled side tank engine (superheated) 0-8-4 type
50	C	18750	Detail of ejector automatic vacuum brake	14 Oct 1915	1 Nov 1921	29 classes of locomotive	
50	C	18753	Detail of cylinders 15 3/4" x 26" stroke	10 Jan 1912		6'6" 6 coupled passenger engine (4 cylinders)	
50	C	18754	Detail of piston valves and liners	17 May 1922		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	see also drawing, same number, dated 25 Jun 1918
50	C	18754	Detail of piston valves and liners	25 Jun 1918	17 May 1922	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	see also drawing, same number, dated 17 May 1922
50	C	18755	Metallic packing for piston rods	12 Jan 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	
50	C	18756	Boiler	25 Jun 1919	5 Sep 1936	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	See drawing 20331
50	C	18759	Arrangement of vacuum brake gear	10 Jan 1912	19 Dec 1912	Standard 3000 gallon tender with sloping bunker	
50	C	18761	Details of crosshead and gudgeon pin	18 Dec 1920		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	
50	C	18762	Details of steam collector in smokebox	20 Jan 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	
50	C	18763	Steam chest covers, snifting valve and blank flanges	25 Jan 1912	31 Dec 1914	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	Snifting valve cancelled, see later drawings for particulars
50	C	18766	Details of 7mm and 5mm injectors (Gresham and Craven)	26 Jan 1912		Rail motors	
50	C	18781	Diagram of boiler smoke tubes (with copper ends) for superheated engines	21 Jan 1924		8 classes of passenger and goods engine (incl. P of W, George V, Claughton, Alfred the G)	
50	C	18782	Arrangement of vacuum brake gear	12 Feb 1912		Standard 3000 gallon tender (old pattern without sloping bunker) fitted with vacuum sack & reservoir	Arrangement of brake same as for tender with sloping bunkers built before Feb 1912

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
50	C	18784	Details of castings	12 Feb 1912		Standard 3000 gallon tender (old pattern without sloping bunker) fitted with vacuum sack & reservoir	
50	C	18785	Diagram showing various lengths of jib and heights for lifting	5 Nov 1904		10-ton travelling breakdown crane	
50	C	18799	General arrangement of radial truck	16 Nov 1922	1 Feb 1957	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	Also for 4'3" 8 wheel coupled side tank 0-8-4 type
51	C	18802	Details of relief valve for cylinders	9 May 1913	26 Sep 1918	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	
51	C	18804	Details of axles and crank pins	26 Feb 1912	4 Feb 1957	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	
51	C	18805	Graduated wrought iron protection tube for gauge glass	29 Feb 1912		3000 gallon tender water bottom tank and sloping bunker	
51	C	18806	Standard head lamp	29 Feb 1912	9 May 1913	Standard fitting	Different burner and well after 1913
51	C	18807	Details of driving wheels	8 Mar 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	
51	C	18817	Details of steam collector in smokebox	2 Mar 1912	20 Nov 1945	6'6" George V class	Also used for P of Wales, 4'3" 8 coupled coal engines superheated and converted to superheater
51	C	18818	Details of coupling rods	none		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	
51	C	18819	Details of safety valve seating	13 Mar 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	This tracing used for the first 10 engines, see 1196
51	C	18819	Details of safety valve seating	9 Dec 1913		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	This tracing used after the first 10 engines, see 1197
51	C	18825	Mechanical lubricator - general arrangement	20 Mar 1912		Standard fitting	
51	C	18826	Mechanical lubricator - cast details	20 Mar 1912		Standard fitting	
51	C	18827	Mechanical lubricator - wrought details	20 Mar 1912		Standard fitting	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
51	C	18831		Details of spring for trailing wheels	5 Jun 1914	14 Dec 1915	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	
51	C	18838	PC	Arrangement and details of spring gear for coupled wheels	11 Oct 1920		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	
51	C	18847		General arrangement of auto vacuum brake	14 Apr 1912		6'6" George V class	
51	C	18848		Arrangement of vacuum brake at footplate end	14 Apr 1912		6'6" George V class	Also to be used for engines fitted with Belpaire boilers
51	C	18849	Rider	Brakebox and hangers used after 9 Oct 1918	9 Oct 1918		George V engines fitted with Belpaire boilers	Attached to main 18849 drawing
51	C	18849		Details of castings for vacuum brake	14 Apr 1912		George V engines fitted with Belpaire boilers	Details of alterations required to bracket for vacuum brake lever. Also see rider.
52	C	18850		Details of forgings etc. for vacuum brakes	14 Apr 1912		6'6" George V class	
52	C	18852		Detail of slide bars, expansion link bracket and valve spindle guide	25 Apr 1930	27 Feb 1941	6'6" 6 coupled passenger engine (4 cylinders)	
52	C	18853		Connecting rod for inside cylinders	1 Dec 1919	21 Oct 1934	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	Correct for first ten engines only
52	C	18854		Standard shackles for crane chains and wire rope thimbles	24 Apr 1912		Standard crane fitting	
52	C	18855		Detail of smoke-box and superheater damper plates	9 Apr 1912	12 Dec 1918	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	
52	C	18857		Detail of casing for cylinder covers	29 Apr 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	
52	C	18858		Connecting rod for outside cylinders	1 Dec 1919	21 Oct 1934	6'6" 6 coupled passenger engine (4 cylinders) Claughton class	Correct for first ten engines only
52	C	18859		Connecting rod for inside cylinders	4 May 1912	15 Apr 1914	6'6" 6 coupled passenger engine (4 cylinders)	
52	C	18860		Connecting rod for outside cylinders	4 May 1912	15 Apr 1914	6'6" 6 coupled passenger engine (4 cylinders)	Altered after first ten engines
52	C	18861		Diagram sheet - internal chimneys for locomotives	20 Apr 1912	31 Oct 1918	Many classes of locomotive	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
52	C	18863	Arrangement and details of plate coal guard	28 May 1920			Standard 3000 gallon tender with sloping bunker
52	C	18865	Details of steam pipe	10 May 1912			6'6" 6 coupled passenger engine (4 cylinders) Claughton class
52	C	18867	Details of regulator and stand pipe	13 Mar 1912			6'6" 6 coupled passenger engine (4 cylinders) Claughton class
52	C	18870	Diagram shewing water capacity of tanks	22 May 1912			5'6" 6 coupled side tank engine
52	C	18871	Detail of valve rocking lever and bracket	22 May 1912			6'6" 6 coupled passenger engine (4 cylinders) Claughton class
52	C	18874	Lever for regulator	17 Oct 1916	26 Mar 1928		6'6" 6 coupled passenger engine (4 cylinders) Claughton class
52	C	18875	Details of quadrant, shaft and eccentric for regulator valve	22 May 1912	20 Feb 1918		6'6" 6 coupled passenger engine (4 cylinders) Claughton class
52	C	18876	Details of steam pipes and flanges in smoke box	22 May 1912			6'6" 6 coupled passenger engine (4 cylinders) Claughton class
52	C	18881	Details of boiler mountings	25 May 1912			6'6" 6 coupled passenger engine (4 cylinders) Claughton class
52	C	18887	Details of driving and trailing wheels	3 Jun 1912			6'6" 4 wheel coupled passenger engine (straight link)
52	C	18888	Tyre fastening for driving and trailing wheels	8 Jun 1912			6'6" 4 coupled passenger engines (Joy's gear), Precursor and George V classes
52	C	18889	Details of castings for framework	11 Jun 1912			6'6" 6 coupled passenger engine (4 cylinders) Claughton class
52	C	18891	Arrangement of pipe to pump for engines fitted with vacuum sack	8 Jun 1912			6'0" 6 wheel coupled Experiment class
52	C	18893	Details of castings for vacuum brake	22 Mar 1920			6'0" Prince of Wales class
52	C	18894	Details of forgings etc. for vacuum brake	8 Jun 1912			6'0" Experiment class

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
53	C	18901	Arrangement & details of oil pipes, check & test valves for LNW mechanical lubricator	15 Jun 1912	3 Apr 1919	"George the Fifth" class 6'6" four wheel coupled pass. Engine	
53	C	18903	Detail of big end for "Coopers" patent roller bearing	26 Jun 1912		"Experiment" class 6'0" six wheel coupled pass. Engine	
53	C	18909	Detail of expansion link & valve rod	15 Sep 1919		"Claughton" class 6'6" six wheel coupled pass. Engine	
53	C	18911	Arrangement of trip gear for automatic vacuum brake	3 Jul 1912		4'6" four wheel coupled side tank pass. Engines	For details see Drg 18912
53	C	18912	Details of trip gear for automatic vacuum brake	3 Jul 1912		4'6" four wheel coupled side tank pass. Engines	
53	C	18914	Detail of return crank, return crank rod & valve spindle crosshead	22 Jul 1912		6'6" six wheel coupled pass.engine "Claughton" class	Details also for "Prince of Wales" class with Walschaerts valve motion
53	C	18915	Details of footplate corner brackets & footsteps	27 Jun 1912	11 Oct 1916	6'6" six wheel coupled pass.engine "Claughton" class	
53	C	18922	Details of blower & steam jet valve	7 Oct 1931		6'6" six wheel coupled pass.engine "Claughton" class	
53	C	18933	Details of reversing shaft & lifting links	9 Aug 1912		6'6" six wheel coupled pass.engine "Claughton" class	Details also for "Prince of Wales" class with Walschaerts valve motion
53	C	18933	Details of cab window frames	2 Aug 1912	31 Mar 1913	"Claughton" class 6'6" six wheel coupled pass. Engine	
53	C	18934	Detail of bushes for motion	21 Aug 1912		"Claughton" class 6'6" six wheel coupled pass. Engine	
53	C	18935	Detail of combining lever, crosshead lever & union link	9 Aug 1912		"Claughton" class 6'6" six wheel coupled pass. Engine	
53	C	18936	Details of spring gear for intermediate wheels	20 Aug 1912	4 Nov 1943	4' 3" 8 wheel coupled coal engines	Also 4' 3" side tank shunting engines
51	C	18937	Spring for intermediate wheels	21 Aug 1912	20 Nov 1943	4'3" 8 wheel coupled coal engine	
51	C	18939	Arrangement and details of reversing gear	9 Aug 1912		6'6" 6 coupled passenger engine (4 cylinders) Claughton class	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
53	C	18941	Details of steam boxes & fittings on whistle stand	4 Jan 1923		"Claughton" class 6'62 six wheel coupled pass. Engine	
54	C	18951	Splashers & lagging for outside cylinders	4 Sep 1912		6'6" six wheel coupled passenger engine "Claughton" class	
54	C	18956	Forgings for cab & panel plates	24 Sep 1912	23 Dec 1919	6'6" six wheel coupled passenger engine "Claughton" class	
54	C	18965	Details of driving and trailing sandboxes	23 Sep 1912		6'6" "George the Fifth" class	
54	C	18967	General arrangement of auto vacuum brake - end views	20 Sep 1912		6'6" six wheel coupled pass. engine "Claughton" class	
54	C	18968	Arrangement of carriage heating apparatus	20 Sep 1912		6'6" six wheel coupled pass. engine "Claughton" class	
54	C	18969	General arrangement & details of injector gear	13 Sep 1912		6'6" six wheel coupled pass. engine "Claughton" class	
54	C	18970	Details of forgings for injector gear	20 Sep 1912	8 Jan 1914	6'6" six wheel coupled pass. engine "Claughton" class	
54	C	18971	General arrangement of ashpan & firebars	5 Jun 1914		6'6" six wheel coupled pass. engine "Claughton" class	
54	C	18971	Revised arrangement of carrying firebars	18 Nov 1918	17 Aug 1934	6'6" six wheel coupled pass. engine "Claughton" class	Rider to drg. 18971
54	C	18972	General arrangement & details of damper gear	3 Oct 1912	28 Oct 1913	6'6" six wheel coupled pass. engine "Claughton" class	
54	C	18975	Details of driving splashers for engines with sandboxes on top of footplate	4 Oct 1912		6'6" "George the Fifth" class	
54	C	18976	Arrangement & details of sand gear	7 Oct 1912		6'6" "George the Fifth" class	
54	C	18977	Steam valves for vacuum brake ejector	8 Oct 1912		6'6" six wheel coupled passenger engine "Claughton" class	
54	C	18983	Stationary boiler with corrugated furnace-arrangement of furnace doors	12 Oct 1911			Leeds Joint Goods



Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
54	C	18986		Water gauge for boiler	10 Oct 1912		6'6" six wheel coupled passenger engine "Claughton" class	
54	C	18990		10 ton wagon wheel - steel casting	14 Oct 1912			
54	C	18991		Details of air valves for automatic vacuum brake	14 Oct 1912		6'6" six wheel coupled passenger engine "Claughton" class	
54	C	18998		Locking clip for reversing rod pins	17 Oct 1912		6'6" four wheel coupled "Precursor" class	
55	C	19003		Details of steam pipes	25 Oct 1912		6'6" "Precursor" class converted to superheater. Existing cyls. with flat valves	
55	C	19005		Details of crank pins	7 Apr 1915		4'3" eight coupled coal engines 20.5" cyl. Superheated & non-superheated	
55	C	19006		Details of 3.5" pipes for exhaust steam injector	30 Oct 1912		6'6" six coupled passenger engine "Claughton" class	
55	C	19007		A.R.L.E. Tyre Section. Standard gauge between tyres for locomotives and tenders	18 Feb 1929	27 Jan 1939	Standard drawing	
55	C	19009		Details of handrails & vacuum exhaust pipes	4 Nov 1912	28 Nov 1918	6'6" "Precursor" class (converted to superheater). Existing cylinders with flat valves	
55	C	19011		General arrangement of smokebox	4 Nov 1912	28 Nov 1918	6'6" "Precursor" class (converted to superheater). Existing cylinders with flat valves	
55	C	19012		Details of coupling rods for superheated and non-superheated engines	26 Oct 1912	28 May 1943	4'3" eight coupled coal engine 20.5" cylinders	
55	C	19016		Details of castings for sand gear	8 Oct 1912	20 Nov 1919	6'6" six wheel coupled passenger engine	
55	C	19022		Arrangement of lubricators & pipes	6 Nov 1912		5'6" six wheel coupled side tank engine with superheater	
55	C	19023		Details of oil connections etc:	14 Nov 1912		6'6" six wheel coupled passenger engine "Claughton" class	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
55	c	19024		Details of holes in flanges of "Davies & Metcalfe" exhaust steam injector	18 Nov 1912		6'6" six wheel coupled passenger engine "Claughton" class	
55	C	19025		Holes in flanges of Davies & Metcalfe exhaust steam injector grease separator	14 Nov 1912		6'6" six coupled passenger engine "Claughton" class	
55	C	19026		Detail of wood block for gauges	14 Nov 1912		6'6" six coupled passenger engine "Claughton" class	
55	C	19028		Details of castings for exhaust steam injector	14 Nov 1912		6'6" six coupled passenger engine "Claughton" class	
55	C	19029		Arrangement & details of cylinder cock gear	18 Nov 1912	18 Aug 1917	6'6" six coupled passenger engine "Claughton" class	
55	C	19030		Details of cylinder cock gear (cocks & brackets)	17 Aug 1917		6'6" six coupled passenger engine "Claughton" class	
55	C	19031		Diagram of holes required in cab sides	25 Dec 1912		6'6" six coupled passenger engine "Claughton" class	
55	C	19032		Castings for handrails & vacuum pipes	23 Nov 1912		6'6" six coupled passenger engine "Claughton" class	
55	C	19033		Castings for footplate doors & water gauge for tender	31 Dec 1912		6'6" six coupled passenger engine "Claughton" class	
55	C	19034		Arrangement & details for working "Wakefields" mechanical lubricator	16 May 1918		6'6" six coupled passenger engine "Claughton" class	
55	C	19035		Arrangement of lubricator pipes for engines having "Wakefield" mechanical lubricators	29 Dec 1912	30 Aug 1934	6'6" six coupled passenger engine "Claughton" class	
55	c	19036		General arrangement of sand gear	23 Nov 1912		6'6" six coupled passenger engine "Claughton" class	
55	C	19038		Details of piston valves & liners (valves 1/16" lap)	14 Apr 1913	1 Feb 1918	4'3" eight coupled superheated coal engine 20.5" cyls.	
55	C	19040		Details of handrails & vacuum pipes	23 Nov 1912	12 Dec 1918	6'6" six coupled passenger engine "Claughton" class	
55	C	19041		Detail of nameplate	28 Nov 1912		6'6" six wheel coupled passenger engine "Claughton" class	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
55	C	19042	Hornblock & axlebox for radial truck	27 Apr 1920	1 Feb 1957	6'6" six coupled passenger engine "Claughton" class	10 other classes of locomotive including 5'0" goods cyls. 19"x26"
55	C	19048	Arrangement of gear for working "Wakefields" mechanical lubricator	12 Dec 1912		4'3" eight coupled superheated coal engine 20.5"x24" cylinders with piston valves	
56	C	19051	Details of axlebox for 11"x 5.5" journals. 3000 gallon tender	9 Dec 1912	17 Jun 1935	6'6" six coupled passenger engine "Claughton" class	
56	C	19052	General arrangement of exhaust steam injector & details of forgings & pipes for same	12 Dec 1912		6'6" six coupled passenger engine "Claughton" class	
56	C	19054	General arrangement of car heating & vacuum pipes at leading & trailing ends	17 Dec 1912		4'6" four coupled side tank engine for motor trains	
56	C	19055	Details of footboards & wood blocks	13 Dec 1912		6'6" six wheel coupled passenger engine "Claughton" class	
56	C	19056	Index plate & casing for reversing screw	14 Apr 1913		6'6" six wheel coupled passenger engine "Claughton" class	
56	C	19057	Details of alterations to 3000 gallon tenders with sloping bunker	20 Dec 1912		6'6" six wheel coupled passenger engine "Claughton" class	
56	C	19075	Details of splicing & stiffening plates between frames at leading end for engines with broken & cracked frames	10 Jan 1913		7'0" four coupled passenger engine "Renown" class	
56	C	19078	Arrangement of footplate doors & water gauge on tender	13 Jan 1913		6'6" six coupled passenger engine "Claughton" class	
56	C	19079	Details of metallic packing	10 Jan 1913		Engine No. 3020 "Cornwall"	
56	C	19080	Crosshead for inside valve spindle	18 Jan 1913		6'6" six coupled passenger engine "Claughton" class	
56	C	19094	Cover for valve rod lifting links		23 Jan 1922	6'6" six coupled passenger engine "Claughton" class	
56	C	19121	Arrangement of steam pipes for whistle stand & blower	7 Mar 1913		6'6" six coupled passenger engine "Claughton" class	
56	C	19129	Arrangement of special iron stays in steel firebox	No date		4'3" eight coupled coal engines	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
56	C	19132	Details of sandboxes for trailing wheels	22 Feb 1918	19 Feb 1946	4'3" eight coupled superheated coal engine with gudgeon pins 3.5" dia. Class G2	Rider print
56	C	19132 C	Details of sand gear for trailing wheels	9 Apr 1913	19 Feb 1946	4'3" eight coupled coal engines	
56	C	19137	General arrangement of sand gear with standard valve cones for trailing wheels	9 Apr 1913		4'3" eight coupled coal engines fitted with small boilers	
56	C	19138	General arrangement of sand gear with standard valve cones for trailing wheels	7 Apr 1913	14 Feb 1946	4'3" eight coupled coal engines fitted with large boilers	
56	C	19147	Details of reversing shaft brake gear	12 Apr 1913		6'6" four coupled passenger engines with Joys valve motion	Drawing with A suffix
56	C	19147	General arrangement of reversing shaft gear	12 Apr 1913		6'6" four coupled passenger engines with Joys valve motion	
56	C	19156	Detail showing arrangement for coupling tender to engine when standard pin is used	8 May 1913		3000 gall. tender with water bottom tank & sloping bunker (for tanks with small plates only)	
56	C	19166	Arrangement of steam pipes for whistle stand & blower	21 Jun 1920		7 Classes of locomotive	
56	C	19167	Water gauge for locomotives with boilers 4'4" or less in diameter	15 May 1913		15 classes of locomotives	
56	C	19186	General arrangement & details of sand gear for driving wheels	5 Jun 1913	9 Jun 1923	6'0" four coupled side tank engine	
56	C	19187	General arrangement & details of sand pipes & stays for driving wheels	5 Jun 1913		5'6" six coupled side tank engine	
56	C	19187	General arrangement & details of sand pipes & stays for driving wheels	14 Mar 1923		5'6" six coupled side tank engine	2 copies
56	C	19198	Diagram of vacuum brake pipes for locomotives	6 Nov 1912		Standard drawing	Sheet 1
56	C	19199	Diagram of vacuum brake pipes for locomotives	6 Nov 1912		Standard drawing	Sheet 2
57	C	19200	Diagram of carriage hearting apparatus - pipes for locomotives	6 Nov 1912		Standard	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
57	C	19206		Particulars of alterations required to valve motion and reversing gear to suit valves with 1 1/16" lap	24 Jun 1913		6'6" "George V" class	
57	C	19207		Diagram shewing positions of reversing gear levers for engines having valves with 1 1/16" lap	24 Jun 1913		6'6" "George V" class	
57	C	19215		Diagram of connecting rods for locomotives - sheet 2	2 Jul 1913		Not specified	List of engines to which this applies is on sheet 1 - not available
57	C	19223		Spring gear for driving wheels	14 Nov 1923		1'4" four coupled tramway engine - outside cylinders - 18" gauge	
57	C	19226		Diagram shewing positions of reversing gear levers for engines having valves with 1 1/16" lap	31 Jul 1913		6'0" "Prince of Wales" class	
57	C	19241		1913 L&NW mechanical lubricator - general arrangement	28 Jul 1913		General	
57	C	19242		1913 L&NW mechanical lubricator - wrought details	28 Jul 1913		General	
57	C	19245	PC	Spiral springs for locomotive engines	8 Sep 1889		General	Bearing spring
57	C	19245		Spiral springs (shewn uncompressed)	28 Jul 1913		General	
57	C	19245	PC	Draw spring for tenders with ordinary buffers	18 May 1889		General	
57	C	19267		Arrangement and details of driving gear (for model locomotive)	25 Sep 1913		Model of 6'6" six coupled passenger engine "Claughton" class	Coin operated model
57	C	19269		Classification of engines - scheme shewing proposed position of numbers for engines	22 Sep 1913		Many classes of engine	
57	C	19275		General arrangement and details of gear for driving Wakefield's mechanical lubricator	23 Sep 1913	21 Dec 1917	6'0" six coupled passenger engine "Prince of Wales" class	Fitted with a friction clutch
57	C	19284		Details of starting gear etc. (for model locomotive)	11 Oct 1913		Model of 6'6" six coupled passenger engine "Claughton" class	Coin operated model

<b>Box</b>	<b>Prefix</b>	<b>Number</b>	<b>Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
57	C	19285		Arrangement of starting gear etc. (for model locomotive)	14 Oct 1913		Model of 6'6" six coupled passenger engine "Claughton" class	Coin operated model
57	C	19295		Arrangement of brake gear with cast iron brake blocks	13 Jan 1917	23 May 1934	4'3" six coupled side tank coal engine	Detail for locos at Abergavenny shed
57	C	19295		General arrangement and details of brake gear with cast iron brake blocks	20 Oct 1913	23 May 1934	4'3" six coupled side tank coal engine	
57	C	19296		General arrangement and details of intermediate damper gear	23 Oct 1913		6'6" six coupled passenger engine (4 cylinders) "Claughton" class	
58	C	19303		General arrangement of regulator rodding	8 Mar 1925		5'0" six coupled side tank class (18" cylinders)	
58	C	19304		Details of regulator rodding	8 Mar 1925		5'0" six coupled side tank class (18" cylinders)	
58	C	19312		Shield plate for intermediate axleboxes	6 Apr 1915		4'3" 8 coupled coal engines and 5'0" 6 wheel coupled goods, compound coal engine 4 cylinders	
58	C	19331		Details of air pump	3 Dec 1913	8 Aug 1924	4'3" 8 coupled coal engine (superheated) - class G1, also used for G2 from May 1919	
58	C	19334		Standard fittings for locomotives	12 May 1920		Standard fittings	
58	C	19342		Brake sack and details of gear	9 Dec 1913	31 Oct 1935	4'3" 8 coupled coal engines (superheated) fitted with automatic vacuum brake	
58	C	19348		Stuffing box and packing for vacuum sack piston rod	15 Dec 1913		General	
58	C	19350		Diagram shewing angle iron on top of cab to prevent water running off at sides	12 Dec 1913		Standard locomotive cabs	
58	C	19352	Rider	Arrangement of brake gear	16 Jul 1923		4'3" 8 coupled coal engines - classes G1, G2	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
58	C	19352		General arrangement of automatic vacuum brake	29 Dec 1913		4'3" 8 coupled coal engine (superheated) - class G1	
58	C	19354		Air valves for auto vacuum brake	24 Apr 1915	17 Nov 1943	4'3" 8 coupled coal engines (superheated) - classes G1, G2, 0-8-4 type & 5'0" 6 wheel coupled goods	
58	C	19355		Steam valves for vacuum brake ejector	15 Jan 1914		4'3" 8 coupled coal engines (superheated)	
58	C	19358		Detail of cab and panel plates	1 Jan 1914	3 Oct 1945	4'3" 8 coupled coal engines (20 1/2" cyls.) superheated, fitted with automatic vacuum brake	
58	C	19362		Lubricators for connecting rod big ends and coupling rods - detail of wire trimmings	none		6'0" six coupled passenger engine "Prince of Wales" class	
58	C	19364		Detail of water pickup scoop	30 Jan 1914		3000 gallon tenders	
59	C	19408		General arrangement and details of working Bosch lubricator	13 Mar 1914		6'6" four wheel coupled "Precursor" and "Queen Mary" converted to superheaters	
59	C	19410		Details of regulator rodding	22 Jan 1927		4'3" side tank coal engine (LMS Western "A" division)	
59	C	19418		Alteration to lubricator pipes in smokebox	16 Apr 1915		6'6" "George V" class	
59	C	19421		Detail shewing alteration in method of lubricating trailing axlebox	21 Mar 1914	12 Jan 1928	6'6" six coupled passenger engine "Claughton" class	
59	C	19423		General arrangement of brake gear for engines with vertical vacuum sack	21 Mar 1914		4'6" four coupled side tank passenger engine (8 wheeled)	
59	C	19424		Details of brake gear for engines with vertical vacuum sack	18 Mar 1914		4'6" four coupled side tank passenger engine (8 wheeled)	
59	C	19437		Connecting rod for inside cylinders	2 Apr 1914	20 Nov 1934	6'6" six coupled passenger engine (4 cylinders) "Claughton" class	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
59	C	19438		Connecting rod for outside cylinders	2 Apr 1914	1 May 1935	6'6" six coupled passenger engine (4 cylinders) "Claughton" class	
59	C	19445		Balanced slide valve with strips	14 Apr 1914		6'6" four coupled passenger engine with Joy's valve motion	"Precursor", "Experiment" and 5'0" 6 coupled goods engine
59	C	19477		Details of 4" and 3 1/2" pipes for exhaust steam injector	30 Oct 1914		6'6" six coupled passenger engine (4 cylinders)	
59	C	19480		Holes in flanges of Davies and Metcalfe exhaust steam injector for grease separator for 4" pipes	17 May 1914		6'6" six coupled passenger engine (4 cylinders) "Claughton" class	
59	C	19548		Details of cylinder drain valves	13 Aug 1914		4'3" four cylinder compound coal engines, 6'0" "Experiment" class and 6'6" "Claughton" class	
59	C	19550		Details of wheels	29 Jul 1914		4'3" eight coupled coal engine (20 1/2" cylinders)	
59	C	19562		Details of strengthened piston valves	15 Aug 1914		6'0" four coupled passenger engine "George V" class	
59	C	19564		Details of coupling rods	15 Aug 1914		6'0" 6 coupled 4 cylinder passenger engine "Experiment" class, fitted with special DM valve arrgt.	
59	C	19581		Details of plates for jib sides	8 Sep 1914		4'3" six coupled side tank crane engine	
59	C	19582		Details of casing plates and angle irons	8 Sep 1914		4'3" six coupled side tank crane engine	
59	C	19583		Details of bearing bracket castings for crane	8 Sep 1914		4'3" six coupled side tank crane engine	
59	C	19584		Details of crane pillar and castings for pillar bearings	8 Sep 1914		4'3" six coupled side tank crane engine	
59	C	19585		Details of tooth wheels for crane	8 Sep 1914		4'3" six coupled side tank crane engine	



<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
59	C	19586	Details of forgings for lifting gear of crane	8 Sep 1914		4'3" six coupled side tank crane engine	
59	C	19587	Details of miscellaneous forgings for crane	8 Sep 1914		4'3" six coupled side tank crane engine	
59	C	19588	Details of wire rope drum and jib head pulley for crane	9 Sep 1914		4'3" six coupled side tank crane engine	
59	C	19589	Details of steam and exhaust pipes for crane	9 Sep 1914		4'3" six coupled side tank crane engine	
59	C	19597	Diagram of cast iron keeps for axle boxes	24 Sep 1914		13 classes of engine	
60	C	19620	Details of cab	21 Oct 1914	28 Feb 1946	3000 gallon tender with sloping bunker	
60	C	19623	Diagram of vacuum brake pipes for locomotives - sheet 3	21 Oct 1914	1 Jan 1919	G1, G2 and 0-8-4 side tank and "Prince of Wales" classes	
60	C	19657	Details of special plates - sheet 1	none		Possibly gun truck - not clear - but for armoured train	
60	C	19658	Details of special plates - sheet 2	none		Possibly gun truck - not clear - but for armoured train	
60	C	19659	Air vents for side tanks	5 Jun 1923		4'3" eight wheel coupled shunting engine	
60	C	19660	Details of special and standard angle irons and tees	none		Possibly gun truck - not clear - but for armoured train	
60	C	19661	Details of standard angle irons and tees	none		Possibly gun truck - not clear - but for armoured train	
60	C	19662	Details of holes in special plates - sheet 1	none		Possibly gun truck - not clear - but for armoured train	
60	C	19663	Details of holes in special plates - sheet 2	none		Possibly gun truck - not clear - but for armoured train	
60	C	19664	General arrangement of gun truck	13 Mar 1915		Gun truck for armoured train	
60	C	19665	Details for bolting down of pedestal	none		Gun truck for armoured train	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
60	C	19668	Details of shields under frame, also miscellaneous details	none		Gun truck for armoured train	
60	C	19670	Vacuum brake and regulator gear pipes	11 Mar 1915		Gun truck for armoured train	
60	C	19672	Standard water gauge - arrangement for automatically releasing top ball valve	27 Nov 1914		Standard fitting	
60	C	19675	Diagram of cast iron keeps for axleboxes - sheet no. 2	8 Dec 1914		12 classes of engine	
60	C	19677	Details of wood flooring	11 Mar 1915		Gun truck for armoured train	
60	C	19679	Details of rifle racks and mess tables	19 Mar 1915		Infantry van (2nd armoured train)	
60	C	19681	Diagram and details of cylinder cock gear for small goods engines etc.	27 Nov 1914		Small goods engines	
60	C	19684	Details of drinking water tanks and reserve water tanks	11 Mar 1915		Coach on armoured train	
60	C	19687	Details of partition in gun truck	none		Gun truck for armoured train	
60	C	19689	Diagram showing rebalancing of wheels	9 Dec 1914		4'3" eight coupled coal engines (cylinders 18 1/2", 19 1/2" and 20 1/2")	
60	C	19689	Detail of balancing for driving wheels	9 Dec 1914		4'3" eight wheel coupled shunting engine	
60	C	19690	Arrangement and details of tanks under infantry van	none		Infantry van for armoured train	
60	C	19693	Arrangement and details of driver's seat on crane	27 Nov 1914		4'3" six coupled side tank crane engine	
60	C	19694	General arrangement of crane	27 Nov 1914		4'3" six coupled side tank crane engine	
60	C	19695	Standard snifting valve for superheated engines	30 Mar 1922		Several classes of engine	
61	C	19711	Arrangement of oil box and pipe for lubricating trailing axle boxes	31 Dec 1914		4'3" special tank engine	

<b>Box</b>	<b>Prefix</b>	<b>Number</b>	<b>Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
61	C	19713		Arrangement of brake gear with cast iron brake blocks	5 Jan 1915	23 Jun 1918	4'3" four coupled shunting engine	
61	C	19715		Details of whistle stand for Belpaire boilers	18 Dec 1914	6 Feb 1925	5'6" six coupled side tank passenger engine	
61	C	19719		Locomotive boilers - diagram sheet of brass liners for holding-down plates	21 Jan 1915		Many classes of engine	
61	C	19723		Arrangement and details of "Gresham and Craven" exhaust steam injector	29 Jan 1915		6'6" six coupled passenger engine "Claughton" class	
61	C	19731		Arrangement and details of tool box on footplate	18 Feb 1915		4'3" six wheel coupled saddle tank coal engine	
61	C	19739		Details of roof plates	none		Gun truck for armoured train	
61	C	19740		Arrangement of latrines	11 Mar 1915		Infantry van for armoured train	
61	C	19741		Details of pigeon holes in gun truck	11 Mar 1915		Gun truck for armoured train	
61	C	19745		Arrangement and details of ammunition boxes for gun trucks	11 Mar 1915		Gun truck for armoured train	
61	C	19746		Details of cupboards and lockers	11 Mar 1915		Gun truck and infantry van for armoured train	
61	C	19747		Additional balance weights for existing wheels	19 Feb 1915		6'0" six wheel coupled passenger engines "Experiment" and "Prince of Wales" classes	
61	C	19748		Details of wardrobe and cabinets in infantry van	19 Mar 1915		Infantry van for armoured train	
61	C	19749		Plans showing fittings in infantry vans	19 Mar 1915		Infantry van for armoured train	
62	C	19754		Additional balance weights for existing wheels	10 Mar 1915		6'6" 4 wheel coupled passenger engine - Precursor class	
62	C	19770		Automatic vacuum brake - details of relief and drain valves	16 Apr 1915		Standard fitting	
62	C	19771		24" vacuum brake sack and fittings	16 Apr 1915	13 Jun 1940	11 classes of passenger and goods engine	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
62	C	19773	Standard Duplex safety valve - details of experimental spring	4 May 1915		Standard fitting	
62	C	19777	Details of frame plates	16 Apr 1915	18 Dec 1946	6'0" 6 coupled passenger engine - Prince of Wales class	
62	C	19778	Details of covering plates	16 Apr 1915	27 Apr 1920	6'0" 6 coupled passenger engine - Prince of Wales class	2 COPIES OF THIS DRAWING
62	C	19779	General arrangement of auto vacuum brake	6 May 1915		6'0" 6 coupled passenger engine - Prince of Wales class	
62	C	19780	General arrangement of auto vacuum brake (end views)	6 May 1915		6'0" 6 coupled passenger engine - Prince of Wales class	
62	C	19781	Details of shield for radial truck axlebox	16 Apr 1915		6'0" 6 coupled passenger engine - Prince of Wales class	
62	C	19782	Details of footplate corner brackets and footsteps	22 Apr 1915		6'0" 6 coupled passenger engine - Prince of Wales class	Locos fitted with vacuum brake
62	C	19784	Details of reversing shaft, brackets and levers	22 Apr 1915		6'0" 6 coupled passenger engine - Prince of Wales class	
62	C	19785	Details of forgings for brake gear	4 May 1915		6'0" 6 coupled passenger engine - Prince of Wales class	
62	C	19786	General arrangement and details of injector gear	16 Apr 1915		6'0" 6 coupled passenger engine - Prince of Wales class	
62	C	19787	Locomotive crossheads for engines with 3 1/2 inch piston rods	8 May 1915	7 Sep 1946	15 classes of engine	
62	C	19788	Detail of gudgeon pins and fittings for 3 1/2 inch piston rods	16 Jun 1915	7 Sep 1946	15 classes of engine	
62	C	19790	Sections and end views	8 Oct 1912		6'0" 6 coupled passenger engine - superheated - Prince of Wales class	First engine built October 1911 - 2 COPIES OF THIS DRAWING - also in Crewe unnumbered series
62	C	19791	Details of covering plates	24 Apr 1915	28 Feb 1946	4'3" eight coupled coal engine (superheated) - class G1	
62	C	19792	Details of frame plates	28 Apr 1915	19 Dec 1946	4'3" eight coupled coal engine (superheated) - class G1	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
62	C	19793		General arrangement and details for damper gear	24 Apr 1915	27 Jun 1946	4'3" eight coupled coal engine (superheated) - class G1	Also used for Class G, D and F locomotives
62	C	19794		Details of lagging for boiler	6 Apr 1915	25 Feb 1921	4'3" eight coupled coal engine (superheated) - class G1	Also used for other engines
62	C	19795		Details of brake gear	7 Apr 1915	2 Oct 1951	4'3" eight coupled coal engine (superheated) - class G1	
62	C	19796		Details of forgings for spring gear for leading, driving and trailing wheels	6 Apr 1915	17 Aug 1937	4'3" eight coupled coal engine (superheated) - class G1	Also used for other engines
62	C	19797		Spring for locomotive engines - reference letter "W13"	24 Apr 1915	10 Nov 1943	6 types of goods and coal engine	
62	C	19798		Details of valve motion	7 Apr 1915		4'3" eight coupled coal engine (superheated) - class G1	
62	C	19799		Arrangement and details of reversing gear	6 Apr 1914	7 Jan 1943	4'3" eight coupled coal engine (superheated) - class G1	Also used for Class G, G2 and F locomotives
63	C	19800		Details of reversing shaft brackets	7 Apr 1915	23 Nov 1923	4'3" eight coupled coal engine (superheated) - class G1	With indirect valve motion only
63	C	19801		Details of motion plate	24 Apr 1915		4'3" eight coupled coal engine (superheated) - class G1	
63	C	19802		Detail of splashers	7 Apr 1915		4'3" eight coupled coal engine (superheated) - class G1	
63	C	19802		Detail of stamped splashers	20 Mar 1929		4'3" eight coupled coal engines (superheated) - classes G1 and G2	Later version of other drawing with same number
63	C	19809		Details of foundation rings for firebox	16 Jun 1915		6'0" 6 coupled passenger engine - Prince of Wales class	
63	C	19810		Details of boiler and firebox plates	16 Jun 1915		6'0" 6 coupled passenger engine - Prince of Wales class	
63	C	19814		Standard draw hooks G, G1, G2	21 Jun 1915		Many classes of passenger engine and 3 classes of goods engine	
63	C	19822		Arrangement of valve motion	23 Jun 1915		4'3" eight coupled coal engines (superheated) - class G1	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
63	C	19823		Details of boiler and firebox plates	8 Jul 1915		4'3" eight coupled coal engines (superheated) - classes G1 and G2	
63	C	19824		Detail of foundation ring for firebox	3 Jul 1915		4'3" eight coupled coal engines (superheated) - classes G1 and G2	
63	C	19831		Standard oil boxes and cups	31 Aug 1915	16 Jan 1924	Standard fitting	
63	C	19837		Arrangement and details of reversing gear	1 Sep 1915	14 Oct 1935	6'0" 6 coupled passenger engine - Prince of Wales class	This arrangement used by contract builders in Glasgow - 16 Jul 1918
63	C	19839		Proposed spring arrangement for water dip lever	24 Aug 1915		3000 gallon tender	
63	C	19840		Arrangement and details of steadying bracket for boiler	1 Sep 1915		6'6" 6 coupled passenger engine - 4 cylinders, Claughton class	
63	C	19850		Gusset brackets for wood buffer beams	26 Aug 1915		4'6" and 4'3" side tank engines	
63	C	19854		Arrangement and details of gear for working Wakefield's No. 7 Mechanical Lubricator	13 Oct 1915	5 Oct 1942	4'3" eight coupled coal engine (superheated) - class G1	
63	C	19857		Detail of plate trough in bottom of axlebox	8 Oct 1915		3000 gallon tender	Not used
63	C	19859		Spring gear for leading and driving wheels	21 Oct 1915	26 Feb 1943	4'3" eight coupled coal engine (superheated) - class G1	
63	C	19873		Blow off cock for engines stationed at Willesden	10 Oct 1915		Fitting for Willesden shed	
63	C	19874		General arrangement and details of clip for cylinder tail rod cover	4 Nov 1915		Prince of Wales and George V classes	
63	C	19876		Detail of standard safety valve seating for boilers with round top firebox shell plates	4 Nov 1915		Many classes of passenger and goods engine	
63	C	19877		Details of gusset stay brackets for smokebox tubeplate	4 Nov 1915		4'3" eight coupled coal engines (superheated) - classes G1 and G2	
63	C	19878		Arrangement of pyrometer. Lubricator and pipes	4 Nov 1915	17 Jul 1946	4'3" eight coupled coal engine (superheated) - class G1	Also in Crewe unnumbered series
63	C	19881		General arrangement of reversing shaft brake gear	11 Nov 1915		4'3" eight coupled coal engine (superheated) - class G1	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
63	C	19884		Details of cab and panel plates	25 Nov 1915		6'0" 6 coupled passenger engine - Prince of Wales class	This arrangement used by contract builders in Glasgow
63	C	19886		Detail of cover plate over reversing screw	23 Jul 1915		6'0" 6 coupled passenger engine - Prince of Wales class	
63	C	19890		Steam heating apparatus - details of drain valve for "Gresham and Craven" hose couplings	24 Nov 1915		Standard fitting	Hoses subsequently subject to LMSR specification, pattern no. 4068
63	C	19896		Arrangement and detail of India rubber water bag connection between engine and tender	17 Dec 1915		Standard fitting	Also in Crewe unnumbered series
64	C	19900		Beam for lifting locomotive wheels	18 Jan 1916			
64	C	19901		Arrangement of riveting in foundation ring for firebox	17 Oct 1922		G1 & G2 classes. Also used for 4'3" eight coupled side tank & 0-8-4 tank	
64	C	19905		Detail of standard fire hole for locomotive boilers	21 Jan 1916			
64	C	19908		Detail of steel steam pipe and flanges in smokebox	21 Jan 1916		6'0" & 6'6" four wheel coupled passenger engine, 5'6" four coupled side tank (all straight link)	
64	C	19909		Detail of steel steam pipe and flanges in smokebox	24 Jan 1916		4'3" six coupled coal engine, 4'3" side tank & 4'3" saddle tank	
64	C	19910		Details of copper steam pipes and flanges in smokebox	21 Jan 1916		5'0" six coupled goods, 5'0" six coupled side tank	
64	C	19913		Details of cones, lid, spindle and packing for sand gear	9 Feb 1916		Class G1	
64	C	19916		Details of cylinder covering plates in smokebox	14 Feb 1916		Class G1	
64	C	19924		Details of life guards	27 Apr 1920		3000 gall. tender with sloping bunker	
64	C	19926		Details of wheels	28 Feb 1916		5'6" six coupled side tank engine	This tracing used for engines built after March 1916

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
64	C	19927		Details of cab and panel plates	8 Mar 1916		Class G1	
64	C	19928		Spring pad for axle box for 11" x 5 1/2" journals	23 Mar 1916		3000 gall. Tender with sloping bunker	This pad to be used for new tenders commencing with the T275 a/c
64	C	19930		Details of footboard	4 Mar 1916		4'3" six wheel coupled special tank engine	
64	C	19932		Spring pad 1 1/2" thick for 10" x 5" & 11" x 5 1/2" axle boxes	12 May 1916		3000 gall. Tender	This pad replaces one of 1" thickness but is only to be used for tenders built before May 1916
64	C	19937		Details of footboard	23 Mar 1916		4'3" side tank coal engine	
64	C	19943		General arrangement of sand gear	4 Apr 1916		2-8-0, 0-8-0 & 0-8-4 locomotives	
64	C	19944		Boiler protection plates from injector overflow	22 May 1916		6 passenger types & 19 goods types	
64	C	19945		"B" type mechanical lubricator fitted with friction drive: general arrangement	28 Mar 1916	23 Nov 1943		
64	C	19946		"B" type mechanical lubricator fitted with friction drive: details of castings	28 Mar 1916	25 Nov 1943		
64	C	19947		"B" type mechanical lubricator fitted with friction drive: details of forgings	13 Jul 1915			
64	C	19950		Standard taper peg pins	16 Oct 1924		Ex-LNWR engines	
64	C	19955		Details of wood foot boards	3 May 1916		4'6" four coupled side tank engines: 6 & 8 wheeled	
64	C	19959		Detail of blast pipe with loose top, fitted with wings	22 May 1916		"Claughton" class	
64	C	19987		Index plate for reversing screw	18 Jul 1916		"Pince of Wales" & "Geo the Fifth" class	Engines with valves having 1 1/16" and 1 1/4" lap
64	C	19991		Arrangement of doors between engine and tender	19 Aug 1916		"George the Fifth" class	Also suits "Prince of Wales", "Experiment", "Precursor", 5'0" Goods
64	C	19992		Arrangement & details for woering a large "B" type mechanical lubricator	19 Aug 1916		5'6" six coupled side tank engine	



Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
64	C	19994		Arrangement of White's water lifter: large size	4 Sep 1916		4'3" six coupled coal engine	
64	C	19995		Davies & Metcalfe 10mm exhaust steam injector. Details of body castings & general arrangement	4 Sep 1916			
64	C	19996		Davies & Metcalfe 10mm exhaust steam injector. Details of cones etc:	4 Sep 1916			
64	C	19997		Details of footstep pads	28 Apr 1920		3000 gall. Tender	
65	C	20006		Bracket for gauge lamp	14 Sep 1916		Classes D, F, G & G1	Not required on engines fitted with water gauge shut off gear
65	C	20007		Diagram of vacuum brake and carriage heating pipes for locomotives. Sheet 4	22 Aug 1916		4 classes of locomotives	
65	C	20008		Diagram of vacuum brake and carriage heating pipes for locomotives. Sheet 5	22 Aug 1916		6 classes of locomotive	
65	C	20013		Footplate protection sheet	10 Oct 1945		Cloughton, George the Fifth, Prince of Wales, 5'0" six coupled goods, G1 & G2 class	
65	C	20028		Details of valve setting templets	9 Nov 1916		Cloughton, George the Fifth, Prince of Wales, 5'6" six coupled side tank, G1 & G2 class	
65	C	20029		Diagram arrangement of pipes and couplings for vacuum controlled regulator gear	1 Nov 1916		Motor train	
65	C	20030		Arrangement of vacuum controlled regulator gear for motor train working	9 Nov 1916		4' 6" four wheel coupled side tank passenger engine	
65	C	20031		Details of fittings for vacuum controlled regulator gear	1 Nov 1916		4' 6" four wheel coupled side tank passenger engine (motor train working)	
65	C	20032		Arrangement of service recorder in cab	13 Nov 1916		4'3" six coupled special tank engine	
65	C	20039		Details of castings for re-balancing old wheels	23 Nov 1916		5'6" six coupled side tank engine	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
65	C	20049		Details of frame and covering plates	12 Feb 1917		4'3" eight coupled coal engine with ordinary slide valves (superheated)	
65	C	20050		Arrangement of smoke box and superheater damper gear	24 Jan 1917	18 Jun 1918	4'3" eight coupled coal engine with ordinary slide valves (superheated)	
65	C	20052		Details of blast pipe	24 Jan 1917		4'3" eight coupled coal engine with ordinary slide valves (superheated)	
65	C	20060		Detail of tank (built of large plates)	4 Dec 1916	8 Dec 1949	3000 gall. tender with water bottom tank and sloping bunker	
65	C	20066		Particulars and dimensions of castle nuts	20 Dec 1916		Standard	
65	C	20068		Details of connection etc: for White's water lifter	9 Jan 1917		G class	
65	C	20078		General arrangement of White's water lifter	6 Jan 1917		G class (for overseas)	
65	C	20087		Table of heights of engines with all axleboxes down on the thimbles & wheels fitted with new tyres			Various types	
65	C	20089		Arrangement and details of wire gauze doors	11 Jan 1917		3000 gall. Tender	Tank with coal well as first built
66	C	20100		Details of steel firebox	21 Feb 1917		Boiler for 4'3" 6 coupled coal engine	
66	C	20111		Details of axlebox, hornblocks, stays, etc.	2 Mar 1917		6'6" 4 coupled George V class, radial truck with 7 1/2" diameter x 12" axle bearings	
66	C	20115		Spring gear with slipper brackets	22 Mar 1917		3000 gallon tender	
66	C	20162		Diagram of Walchaert's valve motion	26 Jun 1917		6'6" 6 coupled passenger engine, 4 cylinders (Claughton class)	
66	C	20206		General arrangement of automatic vacuum	29 Oct 1917		4'3" 6 coupled coal engine	
66	C	20213		Details of cross head gudgeon pin and fittings	9 Nov 1917	26 Aug 1925	G2 class with gudgeon pins 3 1/2" diameter	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
66	C	20225		Arrangement and details of cylinder cock gear	27 Nov 1917		4'6" 4 coupled side tank engine, 6 and 8 wheeled	
66	C	20235		General arrangement of automatic vacuum brake	10 Dec 1917		4'3" 6 coupled coal engines (in Egypt)	
66	C	20236		Arrangement and details of vacuum brake pipes	10 Dec 1917		2500 gallon tender for 4'3" 6 coupled coal engines (in Egypt)	
66	C	20239		Diagram shewing varying thickness of gudgeon pin and connecting rod bolt washers	27 Nov 1917		6'6" 6 coupled passenger engine (4 cylinders)	
66	C	20244		Diagram of Joy's valve motion	29 Oct 1917		Standard fitting	
66	C	20249		Details of brake gear for engines with 24ins vacuum sack	18 Dec 1917		4'3" 6 coupled side tank coal engine	
66	C	20262		Details of motion plate, radius rod and valve rocking lever brackets	2 Jan 1918	19 Dec 1946	G2 class	
66	C	20272		Details of piston rod and slide bars	20 Jan 1918	11 Jul 1950	G2 class with gudgeon pins 3 1/2" diameter	
66	C	20278		Details of hornblocks	25 Jan 1918		G2 class with gudgeon pins 3 1/2" diameter	Also 4'3" 8 coupled side tank coal engine 0-8-4 type
67	C	20300		Details of castings for spring gear and ashpan	22 Feb 1918		Class G2 with gudgeon pins 3 1/2" diameter	Also 4'3" 8 coupled side tank coal engine 0-8-4 type
67	C	20302		Detail of ashpan	22 Feb 1918	16 Jul 1934	Class G2 with gudgeon pins 3 1/2" diameter	Also 4'3" 8 coupled side tank coal engine 0-8-4 type
67	C	20303		Details of frame plates	22 Feb 1918	5 Jan 1947	Class G2 with gudgeon pins 3 1/2" diameter	
67	C	20310		Arrangement of piping and brake gear for locomotives with 24" vacuum sack	15 Feb 1918		4'3" 6 coupled side tank coal engine fitted with 24" vacuum sack	
67	C	20320		Details of boiler with steel firebox and stays	9 Apr 1918		4'3" 8 coupled coal engine (superheated) class G2	
67	C	20322		Detail of elements for Robinson superheater	19 Apr 1918		6'6" Claughton class	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
67	C	20326	Arrangement and details of brake gear with cast iron brake blocks	11 Apr 1918		4'3" 6 wheel coupled coal engine	
67	C	20326 PC	Detail of brake hanger	5 Sep 1919		4'3" 6 wheel coupled coal engine	
67	C	20327	Arrangement and details of brake gear with cast iron brake blocks	11 Apr 1918		5'0" 18" goods engine	
67	C	20330 PC	Detail shewing section of spokes for coupled wheels	13 Apr 1920		Prince of Wales class	
67	C	20331	Details of boiler fitted with steel firebox and stays	19 Apr 1918		6'6" 6 coupled passenger engine, 4 cylinders (Claughton class)	See drawing 18756
67	C	20332	Arrangement and details of brake gear with cast iron brake blocks	19 Apr 1918		4'0" 4 coupled shunting engine	
67	C	20335	Lever for regulator	23 Apr 1918		4'3" 8 wheel coupled compound coal engine (small boilers), classes B and E	Also 4'3" 6-C coal saddle tank & 8-C coal (small boiler) and 7'0" Alfred the Great and Renown
67	C	20372	Details of smokebox steam pipes for engine fitted with 'Robinson's' superheater	22 May 1918		6'6" Claughton class	
67	C	20374	Arrangement and details of screens for windows at trailing end of cab	4 Jun 1918		13 side tank engines	
67	C	20375	Details of alterations to rocking shaft brackets and valve motion	6 Jun 1918		6'0" Prince of Wales class	
67	C	20378	Arrangement of handrails around bunker and extension of footplate at trailing end	12 Feb 1919		5'6" 6 coupled side tank engine (superheated)	
67	C	20384	Wedge apparatus for separating piston rod and crosshead	22 Jun 1918		6'6" 6 coupled passenger engine (Claughton class)	
67	C	20388	Diagrams of footplate and cab window protection sheets for locomotive engines	17 Jun 1918		Many classes of engine	
67	C	20390	Arrangement and details of spring gear for intermediate wheels	10 Jul 1918	4 Nov 1943	G2 class with gudgeon pins 3 1/2" diameter	Also 4'3" 8 coupled side tank coal engine 0-8-4 type
67	C	20392	General arrangement of smokebox for engine fitted with 'Robinson's superheater'	10 Jul 1918		6'6" Claughton class	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
67	C	20393	General arrangement of spring gear	10 Jul 1918	4 Nov 1943	Class G2 with gudgeon pins 3 1/2" diameter	
68	C	20400	Detail of motion plate radius rod bracket and valve rocking lever bracket	30 Jul 1918		6'0" 6 coupled Prince of Wales class with 3 1/2 inch gudgeon pins	
68	C	20405	Details of cylinder covers and piston head, pistons without tail rods	25 Jan 1932	14 Aug 1940	6'0" 6 coupled Prince of Wales class with 3 1/2 inch gudgeon pins	
68	C	20411	Details of 3 1/2 inch crosshead gudgeon pin and fittings	22 Aug 1918		6'0" 6 coupled Prince of Wales class with 3 1/2 inch gudgeon pins	
68	C	20413	Details of piston rod and slide bars	22 Aug 1918	26 Feb 1941	6'0" 6 coupled Prince of Wales class with 3 1/2 inch gudgeon pins	
68	C	20414	Small end of connecting rod for engines	27 Aug 1918		6'0" 6 coupled Prince of Wales class with 3 1/2 inch gudgeon pins	
68	C	20417	Details of driving sandboxes and gear	24 Sep 1918		6'0" 6 coupled Prince of Wales class	
68	C	20421	Details of oil boxes and connections on pipes for lubricating axleboxes	19 Apr 1922		6'6" 6 coupled passenger engine Claughton class	
68	C	20428	Arrangement of oil box and lubricating pipes for trailing axlebox	13 Aug 1920		6'6" 6 coupled passenger engine Claughton class	
68	C	20429 PC	Arrangement of driving sandbox above footplate	24 Sep 1918		6'0" Prince of Wales class	
68	C	20429	Arrangement of sand gear	27 Apr 1920		6'0" 6 coupled Prince of Wales class	
68	C	20434	Diagram shewing removal of superheater damper gear	9 Oct 1918		6'6" 6 coupled passenger engine Claughton class	Also used for George V, Prince of Wales, 5'6" side tank and 4'3" 8 coupled coal engine
68	C	20436	Oil box for intermediate and trailing axleboxes also for driving axlebox	10 Sep 1919		6'6" 6 coupled passenger engine Claughton class	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
68	C	20436	Details of oil box for trailing axlebox	26 Oct 1918		6'6" 6 coupled passenger engine Claughton class	
68	C	20437	Details of oil boxes for driving axleboxes	26 Oct 1918		4'3" 8 coupled coal engines	
68	C	20438 PC	Lubrication - alteration to holes in the splasher	31 May 1922		Claughton class	
68	C	20438	Arrangement of oil boxes and lubricating pipes for driving and intermediate axleboxes	13 Aug 1920	25 Jan 1928	6'6" 6 coupled passenger engine Claughton class	
68	C	20441	Arrangement shewing tubeplates fitted with 2 1/4 inch tubes	31 Oct 1918		6'6" 6 coupled passenger engine Claughton class	
68	C	20443	Arrangement and detail of additional steam valves for exhaust steam injector pipes	22 Oct 1918		6'6" 6 coupled passenger engine Claughton class	
68	C	20445	Metallic packing with cast iron bushes for 3 1/2" inch piston rods	5 Nov 1918		12 classes of engine - item references V5, V6 and V7	
68	C	20446	Arrangement of oil boxes on hornblocks for driving axleboxes	3 Nov 1918		4'3" 8 coupled coal engines	
68	C	20447	Details shewing oiling arrangement for intermediate and trailing axleboxes	7 May 1919		6'6" Claughton class	Also used for driving axleboxes
68	C	20466	Standard driver's seat fixed to panel plate	27 Dec 1918		Many classes including Claughton, C, C1, D, G, G1, G2 and 8 wheel coupled coal engines	
68	C	20476	Details of wire guard for bunker window	4 Dec 1918		5'6" 6 coupled side tank engine	
68	C	20478 Rider	Diagrams shewing alterations to oil grooves in axleboxes	none		None mentioned	Rider to drawing 20478 - missing
68	C	20487 PC	Details of brake hanger stud	15 Jan 1919		6'6" four wheel coupled George V class	
68	C	20487	Standard brake hanger	15 Jan 1919		Many classes of engine	
68	C	20497	Arrangement and details of front sand rod	12 Feb 1919		18" goods engine	
69	C	20506	Boilers	22 Jan 1925	20 Mar 1939	5'6" four coupled side tank, 6'0" & 6'6" four coupled straight link passenger engines	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
69	C	20510	Details of castings for brake hangers	26 Jul 1919		Six classes of locomotives & one tender	
69	C	20511	Diagram showing alteration to oil grooves in axle boxes	28 Sep 1919		None specific	
69	C	20514	Details of boiler mountings	No date		Claughton class	
69	C	20515	Detail of tubes & joints	7 Jul 1919		Claughton class	
69	C	20516	Details of foundation ring for firebox	4 Apr 1919		Claughton class	
69	C	20519	Details of miscellaneous steel castings	16 Mar 1917		Prince of Wales class	
69	C	20520	Details of steel castings for spring buckles	26 Jul 1919		None specified	
69	C	20521	Miscellaneous steel castings. Sheet 2	No date		George the Fifth, G1	
69	C	20522	Miscellaneous steel castings for locomotives. Sheet 3	26 Jul 1919		Experiment, Prince of Wales, G1 & 7'0" four coupled compound	
69	C	20528	General arrangement of reversing shaft brake gear	14 Apr 1919		Prince of Wales class	
69	C	20538	Diagram of studs required for outside boiler mountings	24 May 1919		Claughton class	
69	C	20554	Copper tube plate & stays for firebox	20 Jun 1919		5'0" six coupled goods engine cyls. 19 x 26"	
69	C	20555	Details of fire bars, carriers & brackets	13 Jun 1919		5'0" six coupled goods engine cyls. 19 x 26"	
69	C	20556	details of adjustable internal chimney	13 Jun 1919		Claughton class	
69	C	20566	Brake blocks for engine & tender wheels	No date		5'0" six coupled goods engine cyls. 19" x 26"	
69	C	20567	Detail of buffer springs	No date		5'0" six coupled goods engine cyls. 19" x 26"	
69	C	20578	Details of flanged boiler plates before flanging	16 Jul 1919		G1 & G2 classes	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
69	C	20579		Details of engine & tender brake blocks & bolts	10 Jul 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
69	C	20580		Detail of tender trailing draw hook	11Jul 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
69	C	20583		Miscellaneous steel castings for engines and tenders. Sheet No. 1	23 Jul 1919		Various	
69	C	20584		Details of firebars and centre carrier	10 Jul 1919	2 Aug 1919	Ex WD 2-8-0 mineral engine (Consolidation type)	References to a later drawing, same No. not in roll
69	C	20593		General arrangement and details of driving axle box lubrication	10 Jul 1919		George the Fifth, Precursor, Prince of Wales, Experiment & 5'0" goods 19" x 26" cyls.	
69	C	20594		Diagram of studs required for boiler mountings	15 Aug 1919		G1 & G2 classes	
70	C	20609		Arrangement & details of gear & pipes for Crewe 'B' type mechanical lubricator	29 Sep 1919		Cloughton class	
70	C	20610		Details of steps for engine & tender axle boxes	5 Sep 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20611		Details of connecting & coupling rod bushes	18 Aug 1927		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20612		Arrangement & details of firebrick arch	5 Sep 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20612		Firebricks for firebox brick arch	11 Oct 1920		Ex WD 2-8-0 mineral engine (Consolidation type)	Rider to drg. 20612
70	C	20613		Brass connections for 'B' type mechanical lubricator pipes	11 sSp 1919		Cloughton class	
70	C	20616		Diagram of solid & split taper peg pins	16 Sep 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20634		Renewable valve seating for steam valve for "re-starting" injector	19 Oct 1919		All locos with restarting injectors	
70	C	20635		Oil box for intermediate & trailing axleboxes	15 Sep 1919		Prince of Wales, George the Fifth, Experiment, Precursor & 19" goods	



Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
70	C	20636		Coal watering arrangements	20 Oct 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20637		General arrangement for mechanical lubrication of axles (Wakefield's)	20 Oct 1919		G1 class	
70	C	20638		Details of connections etc: for mechanical lubrication of axles (Wakefield's)	3 Oct 1919	2 Oct 1942	G1 class	
70	C	20657		Arrangement of firehole door	20 Oct 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20658		Detail of firehole door fittings	20 Oct 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20660		Detail of crosshead casting	No date		Cloughton class	
70	C	20661		Details of miscellaneous steel castings for engine & tender	No date		Cloughton class	
70	C	20662		Arrangement & details of coal retaining doors	22 Oct 1919		3000 gall. tender with coal well as first built	
70	C	20670		Details of buffers	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20671		Details of crosshead	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20675		Eccentric sheaves & straps	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20678		Arrangement of L & NWR injector hosepipe on Gresham & Craven injector	13 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20688		Water pipe connection	24 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20692		Arrangement of lubricators for axleboxes	11 Nov 1919		Greenore engine	
70	C	20695		Whistle & details	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
70	C	20696	Glass water gauges	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20697	Coupled spring & spring links	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
70	C	20698	Springs, spring links & pads for tenders	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
71	C	20701	Piston valve arrangement and liners	30 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20702	Details of piston valve	30 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20703	Detail cab window glass	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20707	Standard duplex vacuum gauge and standard pressure gauge - Bourdon type	9 Dec 1919		For general use	
71	C	20711	Drop forged spring shoe	31 Dec 1919		Standard 1800 gallon tender	
71	C	20713	Valve spindle, valve connecting rod and reversing link	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20714	Piston rod and slidebars	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20719	Details of metallic packing for piston rod and piston valve spindle	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20720	Cylinder covers, piston and tail rod casing	30 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20721	Pipe couplings	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	For engines fitted with steam brake
71	C	20722	Pipe couplings	24 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	For engines fitted with Westinghouse brake
71	C	20724	Alteration to cylinder lubricator pipes	22 Dec 1919		18" goods engine	Also used for 5'0" 6 wheel coupled side tank

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
71	C	20738	Bogie spring and spring links	11 Dec 1919		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20741	Details of handrails on sides of engine cabs	16 Jan 1920		Standard fitting	Specific mention of George V, Prince of Wales and Claughton classes
71	C	20751	Intermediate draw bar	21 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20752	General arrangement	9 Jan 1920		6'6" 4 coupled passenger engine, George V class	Fitted with 'Weir' feed pump and feed water heater
71	C	20753	Details of castings	9 Jan 1920		6'6" 4 coupled passenger engine, George V class	Fitted with 'Weir' feed pump and feed water heater
71	C	20754	Details of forgings	9 Jan 1920		6'6" 4 coupled passenger engine, George V class	Fitted with 'Weir' feed pump and feed water heater
71	C	20756	Diagram of firebox fitted with Crewe type brick arch and altered deflector plate	9 Jan 1928		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20760	Details of regulator, safety valve, hornblocks, etc.	22 Jan 1920		Tiny class - 1'4" 4 coupled tramway engine (18" gauge)	
71	C	20771	Eccentric rods	21 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20774	Tender axle box	6 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20776	Scarab oil burning system - details of oil feed tank	14 Feb 1920		Precursor class	
71	C	20778	Tender axlebox details, back plate and oilers	14 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20779	Connecting rod	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20782	Scarab oil burning system - details of ashpan	14 Feb 1920		Precursor class	
71	C	20784	Coupling rod	21 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
71	C	20785	Cylinder drain cocks air valve and mechanical lubricator	22 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
71	C	20789	Details of steam pipes	18 Feb 1920		7'0" Alfred the Great class (superheated)	
71	C	20790	Arrangement and details of gear for Crewe 'B' type mechanical lubricator	18 Feb 1920		6'6" Precursor class (converted to superheater)	Applies to existing cylinders with flat valves
71	C	20791	Arrangement and details of pipes for four feed mechanical lubricator	23 Feb 1920		6'6" Precursor class (converted to superheater)	
71	C	20792	Foundry bogie ladle	18 Feb 1920		Foundry tool	
71	C	20795 PC	Standard spanners	1 Mar 1920		M M engines (not known what these are)	
72	C	20804	New smokebox for special tank engine	3 Mar 1920		Special tank engine	This smokebox can also be used for Greenore engines
72	C	20806	Details of dome for boiler	15 Mar 1920		Prince of Wales class	
72	C	20807	Details of tyres for engine wheels	15 Mar 1920		Prince of Wales class	
72	C	20808	Detail of trailing hornblock & keep	15 Mar 1920		Prince of Wales class	
72	C	20809	Ash shute & lamp holders	12 Mar 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
72	C	20810	Steam header discharge valve	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
72	C	20812	Elevation of ashpan & firebar arrangement	29 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
72	C	20813	Plan of ashpan & firebar arrangement	29 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
72	C	20814	Ashpan elevation	29 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
72	C	20815	Ashpan plan	29 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
72	C	20816		Arrangement of Westinghouse brake	23 Mar 1920		Ex-WD 2-8-0 mineral engine (Consolidation type) 4000 gall. Tender	
72	C	20820		Spiral springs	22 Mar 1920		Prince of Wales class	
72	C	20821		Cylinders 20 1/2" Dia. X 26" stroke	15 Mar 1920		Prince of Wales class	
72	C	20826		Diagram of valve motion for engines without rocking shafts	10 Apr 1920	23 Jul 1923	Prince of Wales class	
72	C	20826		Arrangement of valve motion	14 Jun 1915		Prince of Wales class	
72	C	20832		Feed cock, unions etc:	26 Mar 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
72	C	20833		Details of flexible steam brake coupling & new arrangement	7 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
72	C	20834		Rubbing block, axlebox oil pipe guides, frame details & screw jack fixing	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
72	C	20837		Detail of rivet head used in boiler	27 Apr 1920		Prince of Wales class	
72	C	20838		Special rolled sections	27 Apr 1920		Prince of Wales class	
72	C	20842		General arrangement & details of trailing sandbox gear	7 Jan 1919		4'3" six wheel coupled side tank coal engine	
72	C	20844		Details of lifeguards	11 May 1920		Prince of Wales class	
72	C	20845		Standard spanners for M.M.engines	24 Apr 1920		Standard	
73	C	20850		Lamp brackets for engine	28 Apr 1920		Prince of Wales class	
73	C	20852		Details of cab plates & panels	17 May 1920		Prince of Wales class	
73	C	20853		Detail of expansion ring for water circulator in firebox	10 May 1920		Cloughton class	
73	C	20854		Detail of water circulator in firebox	10 May 1920		Cloughton class	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
73	C	20855	Details of connections for armoured hose pipes to leading & driving axleboxes	7 May 1920	2 Oct 1942	G1 class (fitted with Wakefield's mechanical lubricator to axleboxes)	
73	C	20856	Cab window	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
73	C	20862	Details of reversing gear	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
73	C	20863	Stop cock & carrier for steam brake & rail washing details	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
73	C	20864	Steam header discharge valve details	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
73	C	20866	Details of crank pins	17 May 1920		G2 class	These pins used for G & G1 & 4'3" eight coupled side tank & 0-8-4 with new coupling rods
73	C	20874	Details of direct valve motion	12 June 1920		Prince of Wales class	
73	C	20876	Arrangement for coupling tender to engine when standard pin is used	28 May 1920		3000 gallon tender with water bottom tank & sloping bunker (tank with large plates only)	
73	C	20879	Tender brake pillar	11 Jun 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
73	C	20880	Water gauge lamp	12 Jun 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
73	C	20886	Details of piston rod & slide bars	21 Jun 1920	24 Feb 1941	Prince of Wales class with gudgeon pins 3 1/2" dia. and direct motion	
73	C	20887	Arrangement & detail of reversing gear for engines with direct motion	21 Jun 1920	18 Oct 1935	Prince of Wales class	
73	C	20889	Arrangement of vacuum brake, carriage heating & water feed pipes	4 Jun 1920		3000 gall. tender with sloping bunker	
73	C	20890	Special bolts, nuts, studs etc:	No date		Prince of Wales class	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
75	C	20892		Reversing rod and guide	20 Oct 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
73	C	20895		Details of cold rivets & pins	21 Jul 1920		Prince of Wales class	
73	C	20898		Oiling arrangement for intermediate & trailing axle boxes	12 Jul 1920		Prince of Wales class	
73	C	20899		Diagram sheet of bolts	No date		Prince of Wales class	
74	C	20900		Miscellaneous details for lubricating	none		Prince of Wales class	
74	C	20901		Water connection between bunker and side tank	12 Jul 1920		4'3" 6 coupled side tank coal engine	Also 3 other classes of side tank engine
74	C	20903		Details of firebricks for arch in firebox fitted with water circulator	12 Jul 1920		Cloughton class	
74	C	20908		Chimney	5 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
74	C	20916		General arrangement and details for working Crewe 'B' type mechanical lubricator	12 Nov 1920		Prince of Wales class	
74	C	20920		Details of oil boxes	5 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
74	C	20921		Details of riveting of tank	13 Aug 1920	16 Jun 1936	3000 gallon tender with sloping bunker built of large plates	
74	C	20922		Cab windows and cab handrail and pillars	13 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
74	C	20923		Detail of glass for small cab windows	13 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
74	C	20924		Details of hornblocks and keeps	13 Aug 1920		4'3" 4 cylinder compound	
74	C	20925		Standard number plate for tenders	17 Aug 1920		Standard fitting	
74	C	20926		Arrangement of pyrometer, lubricator and pipes	17 Aug 1920		Prince of Wales class	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
74	C	20931	Blow-off cock and steam stop valve for water lifter	17 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
74	C	20932	Vacuum sack bearings for brake gear with blocks on back of wheels	none		3000 gallon tender with sloping bunker	
74	C	20935	Altered arrangement of fall late between engine and tender	27 Aug 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
74	C	20942	Details of joints for water circulator in firebox	1 Sep 1920		Cloughton class	
74	C	20948	Spring for locomotive engines, reference letter W18	20 Sep 1920	20 Nov 1943	G, G1 and G2 classes, leading and driving wheels	also 6 other classes of 4'3" 8 coupled engines
75	C	20956	Ashpan details and ashpan drench pipe	29 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20957	Smokebox door details	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20959	Regulator and main steam pipe	27 Sep 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20960	Regulator details and stuffing box	7 Oct 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20964	Index plate for reversing screw nut	15 Oct 1920		Prince of Wales class with direct valve motion	
75	C	20965	Miscellaneous pipe clips and flanges	7 Oct 1920		Prince of Wales class	
75	C	20969	Steam valve stand	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20971	Details of leading sandboxes	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20972	Details of driving sandbox	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20973	Details of trailing sandbox	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	



Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
75	C	20974		Washout door, mud and fusible plugs	9 Jan 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20975		Reversing screw bracket	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20977		General arrangement of water circulator in firebox	15 Oct 1920		Cloughton class	Dye line print - 2 copies
75	C	20978		Arrangement and details of intake channel for water circulator in firebox	29 Oct 1920		Cloughton class	
75	C	20979		Bogie (sic) axlebox and slides	12 Feb 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20980		Details of valve motion for engines without rocking shafts	18 Oct 1920		4'3" 8 coupled coal engine (superheated) Class G1	
75	C	20981		Brake rod and details	19 Oct 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20990		Reversing shaft and carrier	29 Oct 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20991		Steam brake cylinder	29 Oct 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
75	C	20992		Details of alterations (increasing lead to 3/16" & exhaust clearance to 1/4")	21 Oct 1920		Prince of Wales class	Valve motion unaltered. Does not apply to locos with valves having 1 1/4" lap
75	C	20998		Detail of oil feed as fitted to 3000 gallon tender with sloping bunker	6 Nov 1920		George V class fitted for "Scarab" oil fuel	
75	C	20999		Steam receiver and connections	6 Nov 1920		George V class fitted for "Scarab" oil fuel	
75	C	21000		Method of fixing gudgeon pin key	29 Oct 1920		Standard fitting	
75	C	21005		Detail of oil heater and pipe connections as fitted to 3000 gallon tender with sloping bunker	20 Nov 1920		Tender for George V class fitted for "Scarab" oil fuel	
75	C	21006		New standard cast iron piston rod packing (3 1/2" diameter)	25 Sep 1920		G2 class, also Prince of Wales class built at Crewe after 1920	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
76	C	21007		Details of miscellaneous castings	20 Dec 1920		3000 gallon tender for George V class fitted for "Scarab" oil fuel, with sloping bunker	
76	C	21013		Arrangement of gears	27 Sep 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
76	C	21014		Arrangement of gears	10 Nov 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
76	C	21016		Detail of oil feed plug cock	24 Nov 1920		3000 gallon tender for George V class fitted for "Scarab" oil fuel, with sloping bunker	
76	C	21017		Details of wheels	30 Nov 1920		G2 class (superheated)	Also three other 4'3" 8 coupled engines (G, G1 and side tank shunting engine)
76	C	21017	Rider	Supplementary balance weight for intermediate wheels	24 May 1921		G1 class when used for G2 class	
76	C	21020		Details of ashpan	10 Dec 1920		George V class fitted for "Scarab" oil fuel	
76	C	21023		General arrangement and details for fitting Schaffer-type injector	10 Dec 1920		Tramway engine	
76	C	21028		Miscellaneous details for oil feed tank	13 Dec 1920		3000 gallon tender for George V class fitted for "Scarab" oil fuel, with sloping bunker	
76	C	21031		Arrangement and details of gauge for oil feed tank	14 Dec 1920		3000 gallon tender for George V class fitted for "Scarab" oil fuel, with sloping bunker	
76	C	21034		Alteration to auto vacuum brake	16 Dec 1920		George V class fitted for "Scarab" oil fuel	
76	C	21035		Details of oil valves and connections	18 Dec 1920		George V class fitted for "Scarab" oil fuel	
76	C	21036		Arrangement and details of damper and drain cock gear	18 Dec 1920		George V class fitted for "Scarab" oil fuel	
76	C	21041		Details and position of brackets for filling pipe and rotary pump	1 Jan 1921		George V class fitted for "Scarab" oil fuel	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
76	C	21043		Piston rod packing swab gland	16 Dec 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
76	C	21044		Details of steam valves and connections	24 Dec 1920		George V class fitted for "Scarab" oil fuel	
76	C	21051		Arrangement of ashpan steam and oil pipes	3 Jan 1921		George V class fitted for "Scarab" oil fuel	
76	C	21053		Cylinders - end views	16 Dec 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
76	C	21054		Details of cylinders - elevation and sectional plan	16 Dec 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
76	C	21055		Arrangement for operating oil and steam valves	4 Jan 1920		George V class fitted for "Scarab" oil fuel	
76	C	21056		Oil box for driving and intermediate axleboxes - weather plate over hinge	17 Sep 1920		Cloughton class	
76	C	21057		Arrangement of fire bricks in ashpan	7 Jan 1921		George V class fitted for "Scarab" oil fuel	
76	C	21058		Details of clips for oil and steam pipes, Scarab oil fuel system	7 Jan 1921		3000 gallon tender with sloping bunker	
76	C	21059		Reservoir carriers and pipe clips, release springs and details	3 Nov 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
76	C	21060		Brake reservoir carriers and pipe clips, release springs and details	3 Nov 1920		Tender for ex-WD 2-8-0 mineral engine (Consolidation type)	
76	C	21061		Arrangement of steam and oil pipes under trailing end	10 Jan 1921		George V class fitted for "Scarab" oil fuel	
76	C	21062		Detail of altered screw and stops for reversing screw brackets	1 Dec 1920		4'3" 8 coupled coal engine (superheated) Class G1	
76	C	21063		Arrangement of fire bricks in firebox	10 Jan 1921		George V class fitted for "Scarab" oil fuel	
76	C	21067		Leading wheels, axle, crankpin, key and tyre sections	13 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
76	C	21068		Intermediate and trailing wheels, axles, tyre sections and crank pins	22 Apr 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
77	C	21070		General arrangements and details of protection and shield plates on footplate	15 Jan 1921		George V class fitted for "Scarab" oil fuel	
77	C	21071		Arrangement of baffle plate in smoke box	11 Jan 1921		George V class fitted for "Scarab" oil fuel	
77	C	21071	A	Arrangement of baffle plate in smoke box	30 Nov 1920		Precursor class	
77	C	21073		Footplate protection sheet	15 Jan 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	
77	C	21074		Arrangement and details for fitting with 'Teloc' speedometer	15 Jan 1921		3000-gallon tender	
77	C	21077		Diagram showing normal and minimum distances allowed between engine & tender... (contd. in Other Information)	21 Jan 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	(Continued from Title) ...and leading coupling rod and crosshead
77	C	21080		General arrangement of smokebox	29 Jan 1921		Alfred the Great class	
77	C	21082		Steam header	20 Nov 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
77	C	21083		Cylinder drain cock details	6 Dec 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	
77	C	21086		Details of valve motion	7 Feb 1921		G2 class	
77	C	21089		Arrangement of firebricks in ashpan	16 Feb 1921		Precursor class no. 2585 "Watt" fitted with "Scarab" oil fuel	
77	C	21095		Bogie wheel, axles and tyre sections	15 Jan 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	
77	C	21097		Driving wheels, axles, tyre sections and crank pins	21 Jan 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	
77	C	21098		Tender wheels, axles and tyre sections	15 Jan 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
78	C	21102		Details of piston valves with cast iron rings for high pressure cylinders	26 Feb 1921		Alfred the Great class (superheated)	
78	C	21104		Details of lubricator connections for high pressure cylinder	2 Mar 1921		Alfred the Great class (superheated)	
78	C	21105		Westinghouse brake shaft and piston rod	2 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	
78	C	21106		Brake hangers and carriers	2 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	
78	C	21115		Arrangement and details for working Crewe 'B' type mechanical lubricator	19 Mar 1921		Alfred the Great class (superheated)	
78	C	21116		Steam brake shaft and carrier	8 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	Two drawings with same number
78	C	21116		Detail of brake block shaft and carrier	30 Nov 1920		Ex-WD 2-8-0 mineral engine (Consolidation type)	Two drawings with same number
78	C	21117		Arrangement of steam pipes & valves in cab & starting up pipe to blower; also details of clips etc.	8 Mar 1921		George V class fitted for Scarab oil fuel	
78	C	21125		Axlebox slides, leading	19 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	
78	C	21126		Axlebox slides, driving	19 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	
78	C	21127		Axlebox slides, intermediate	19 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	
78	C	21128		Axlebox slides, trailing	2 Apr 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	
78	C	21129		Brake shaft carriers	19 Mar 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	For engines fitted with Westinghouse brake
78	C	21130		Exhaust pipe nozzle	2 Apr 1921		Ex-WD 2-8-0 mineral engine (Consolidation type)	
78	C	21136		Experimental bush in blastpipe	25 Apr 1921		Claughton class	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
78	C	21137	Arrangement and details of gear and pipes for Crewe 'B' type mechanical lubricator	25 Apr 1921			Cloughton class
78	C	21139	Smokebox - sectional end view	13 Apr 1920			Ex-WD 2-8-0 mineral engine (Consolidation type)
78	C	21139 A	Smokebox - elevation	16 Apr 1921			Ex-WD 2-8-0 mineral engine (Consolidation type)
78	C	21143	Mechanical lubricator details	5 May 1921			Ex-WD 2-8-0 mineral engine (Consolidation type)
79	C	21150	Boiler plan & end view	9 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21154	Superheater tubes	9 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21155	Smokebox tube plate	29 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21156	Firebox back	30 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21157	Firebox	9 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21158	Firebox bottom ring	29 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21160	Boiler elevation	9 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21161	Mud collector & blow off cock seating. Expansion angle & firehole ring	9 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21162	Safety valve seating	9 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21163	Dome, boiler & firebox stays	9 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21164	Boiler & firebox plates	9 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21165	Longitudinal stay carrier	9 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21166	Boiler & firebox plates	12 Feb 1920			Ex WD 2-8-0 mineral engine
79	C	21167	Firebars, carriers & bearers	29 Jan 1920			Ex WD 2-8-0 mineral engine
79	C	21168	Boiler seatings	9 Jan 1920			Ex WD 2-8-0 mineral engine

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
79	C	21172		Alterations required to give 4 1/2" side play to radial truck	7 May 1921		Cloughton class	
79	C	21176		Arrangement & details of gear & pipes for Crewe "B" type mechanical lubricator	30 Apr 1921		Class G2 superheated	
79	C	21177		Arrangement of valve motion	25 May 1921		Ex WD 2-8-0 mineral engine	
79	C	21180		Arrangement for lubricating piston & spindle glands	24 May 1921		Ex WD 2-8-0 mineral engine	
79	C	21185		Boiler & smokebox handrails & pillars	10 May 1921		Ex WD 2-8-0 mineral engine	
79	C	21188		Arrangement of ashpan for "Unolco" oil fuel system	22 Jun 1921		Cloughton class	
79	C	21189		Valve carrying plate & bracket on right hand panel. "Unolco" oil fuel system	22 Jun 1921		Cloughton class	
79	C	21190		Detail of dished plate to clear 1500 gall circular oil tank ."Unolco" oil fuel system	22 Jun 1921		3000 gall. tender sloping bunker. Cloughton class	
79	C	21191		1500 gall circular oil tank. "Unolco" oil fuel system	18 Jun 1921		3000 gall. tender sloping bunker	
79	C	21193		Back pressure release valve on piston valve tube & conical lock nut valve spindle c/head	14 Jun 1921		Prince on Wales class	
79	C	21193		Compression reducing valve on piston valve tube	26 Jun 1922		Prince on Wales class	Part copy. Patent No. 190052
79	C	21194		Tank carrying brackets & cover for gauge float 1500 gall circular oil tank "Unolco" system	25 Jun 1921		3000 gall. Tender	
79	C	21195		Holes in footplate castings for "Unolco" oil fuel system	28 Jun 1921		Cloughton class	
79	C	21196		Arrangement of steam pipes leading to oil fuel valves. "Unolco" oil fuel system	29 Jun 1921		Cloughton class	
79	C	21197		Details of oil level indicator for "Unolco" oil fuel system 3000 gall. tender sloping bunker	29 Jun 1921		Cloughton class	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
79	C	21198	Details of 1500 gall. circular oil tank for 3000 gall. tender with sloping bunker	30 Jun 1921		Claughton class	"Unolco" oil fuel system
79	C	21199	Position of holes in 3000 gall. tender (sloping bunker) "Unolco" oil fuel system	29 Jun 1921		Claughton class	
80	C	21200	Details of oil control gear, oil valve brackets & starting up connection clip "Unolco" sys.	30 Jun 1921		Claughton class	
80	C	21203	Arrangement & detail of heater in oil tank. "Unolco" system	30 Jun 1921		3000 gall tender with sloping bunker. Claughton class	
80	C	21204	Details of unions & connections. "Unolco" system	1 Jul 1921		Claughton class	
80	C	21205	Details of steam heater, pipe connections & clips for engine & tender. "Unolco" system	1 Jul 1921		Claughton class	
80	C	21206	Details of cullender & filling pipes on oil tank. "Unolco" system	11 Jul 1921		3000 gall tender with sloping bunker (Claughton class)	
80	C	21214	Arrangement & details of intermediate & back damper gears "Unolco" system	15 Jul 1921		Claughton class	
80	C	21221	Arrangement of oil & steam pipe connections between engine & tender. "Unolco" system	20 Jul 1921		Claughton class	
80	C	21222	General arrangement of loco fitted with "Unolco" fuel system	20 July 1921		Claughton class	
80	C	21224	Arrangement of firebricks in firebox & ashpan. "Unolco" system	20 Jul 1921		Claughton class	
80	C	21225	General arrangement of oil tank & fittings "Unolco" system	20 Jul 1921		3000 gall tender with sloping bunker. Claughton class	
80	C	21231	Details of holes in flanges of D&M 9mm exhaust steam injector	8 Jun 1921		Prince of Wales class fitted with D&M exhaust steam injector	
80	C	21232	Details of castings sheet 1	8 Jun 1921		Prince of Wales class fitted with D&M exhaust steam injector	
80	C	21234	Details for double set of bearing springs	18 Mar 1929		Claughton class	



Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
80	C	21237	Details of castings sheet 2	8 Jun 1921		Prince of Wales class fitted with D&M exhaust steam injector	
80	C	21238	Details of forgings	8 Jun 1921		Prince of Wales class fitted with D&M exhaust steam injector	
80	C	21239	Details of connections on oil filling & steam starting up pipes. "Unolco" system	23 Aug 1921		Cloughton class	
80	C	21250	General arrangement for locomotives fitted with D & M 9mm exhaust steam injector	23 Aug 1921		Prince of Wales	
80	C	21254	Balancing weights for wheel balancing machine	18 Dec 1920		G2 class & 4'3" 8 w.c. shunting engine	
80	C	21259	Experimental regulator valve for large engines	7 Oct 1921		Large engines	
80	C	21262	Driving & intermediate oil box	15 May 1922	20 Oct 1948	Prince of Wales class	
80	C	21274	Trailing oil box	19 Jun 1922		Prince of Wales class	
80	C	21279	Arrangement & details of lubrication for axleboxes & hornblocks	6 Dec 1921		Prince of Wales class	
80	C	21280	Alteration to cylinder lubricator pipes	3 Jan 1922		6'6" 4 w.c. passenger engine & 6'0" 4 w.c. straight link & 5'6" 4 w.c. side tank engines	
80	C	21281	Arrangement for lubricating piston valves & cylinders (6 feeds)	2 Jan 1922		Prince of Wales class	
80	C	21289	Clips for spring hanger nuts	16 May 1922		Cloughton, Prince of Wales, Experiment, George the Fifth & Precursor	
80	C	21290	Details of plug cock & connections for testing steam pressure gauges	25 Jan 1922		Equipment for testing engines at sheds	
80	C	21297	Alteration of cab, widows, water feed spindle, blower & damper rods (Memo 425)	13 Feb 1922		4'3" 6 w.c. saddle tank coal engine	
80	C	21298	Details of steam driving axle box with gun metal underbearing	10 May 1922		Cloughton class	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
81	C	21306	Shut off valve on pressure gauge steam pipe	8 Mar 1922			Standard fitting for many classes of passenger and goods engine
81	C	21321	Arrangement of lubrication for axleboxes and hornblocks	11 Apr 1922			George V class
81	C	21336	Stiffening bracket under reversing screw bracket	10 May 1922			4'3" 8 wheel coupled coal engine, G1 and G2 classes
81	C	21337	Arrangement of steps, handrails round bunker, and extension of footplate at trailing end	10 May 1922			6'0" 4 coupled side tank engine
81	C	21348	Diagram sheet of copper joints for cylinders and steam chest covers	26 Jun 1922			Standard fitting for many classes of passenger and goods engine
81	C	21365	Arrangement and details of "Superior" tube cleaners	30 Aug 1922	24 Jan 1927		4'3" 8 coupled coal engine, G1 class
81	C	21369	Arrangement of lubricating for axleboxes and hornblocks	7 Sep 1922			5'0" 6 wheel coupled goods engine (19" cylinders)
81	C	21370	General arrangement and details for fitting "Detroit" vacuum lubricator	11 Sep 1922			Prince of Wales class
81	C	21373	Liner for cylinder valve face	16 Sep 1922			Precursor class and 12 other classes
81	C	21374	Profiles of frame plates	2 Oct 1922			4'3" 8 coupled side tank, 0-8-4 type
81	C	21378	Arrangement of rivetting in foundation ring for firebox	24 Jul 1922			George V class
81	C	21379	Arrangement and details of fittings and pipes	2 Oct 1922			Cloughton class
81	C	21380	General arrangement of lubrication for steam chest and cylinders	17 Oct 1922			George V class and Precursor class superheated with piston valves
81	C	21381	Detail of tank stay bracket	17 Oct 1922			4'3" 8 coupled side tank, 0-8-4 type
81	C	21382	Detail of trailing tank and coal bunker	21 Oct 1922	12 Jul 1937		4'3" 8 coupled side tank, 0-8-4 type

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
81	C	21384		Details of brake gear for engines using two vacuum sacks	2 Oct 1922		Cloughton class	
81	C	21396		Arrangement and details of trailing sand gear	6 Nov 1922		4'3" 8 coupled side tank, 0-8-4 type	
81	C	21398		Details of side tanks	9 Nov 1922		4'3" 8 coupled side tank, 0-8-4 type	
81	C	21399		Details of holes in frame plates	9 Nov 1922		Prince of Wales class with Walschaert valve motion	
82	C	21402		Arrangement for increasing brake power on engine	21 Nov 1922		Cloughton class	
82	C	21403		Arrangement and details of feed water gear	6 Nov 1922		4'3" 8 coupled side tank, 0-8-4 type	
82	C	21407		Detail of frame cross stays	16 Nov 1922	25 Oct 1937	4'3" 8 coupled side tank, 0-8-4 type	
82	C	21408		Details of tank and footplate carrying bracket	16 Nov 1922		4'3" 8 coupled side tank, 0-8-4 type	
82	C	21410		General arrangement and detail of cylinder cock gear	18 Nov 1922		4'3" 8 coupled side tank, 0-8-4 type	
82	C	21411		Details of forgings for reversing gear	24 Nov 1922	4 Jan 1938	4'3" 8 coupled side tank, 0-8-4 type	
82	C	21415		Detail of covering plate	16 Dec 1922		Prince of Wales class with Walschaert valve motion	
82	C	21416		Alteration to drawbar gear (front end)	6 Nov 1922	25 Nov 1926	1800 gallon tender	
82	C	21419		Details of castings for reversing gear	29 Nov 1922	4 Jan 1938	4'3" 8 coupled side tank, 0-8-4 type	
82	C	21420		Details of forgings for reversing gear	6 Dec 1922	26 Oct 1937	4'3" 8 coupled side tank, 0-8-4 type	
82	C	21423		Details of sand gear for leading and driving wheels	6 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
82	C	21425	Details of lagging for boiler	11 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type	
82	C	21428	Details of covering plates	16 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type	
82	C	21437	Spring link brackets	10 Jan 1921		Ex WD 2-8-0 mineral engine	
82	C	21438	Details of lagging for boiler	20 Dec 1922		6'6" 4 coupled passenger engine "Joy's" valve motion - George V and Precursor	
82	C	21439	Arrangement of smoke box	20 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type	
82	C	21440	Detail of cab	20 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type	
82	C	21441	General arrangement of motion	28 Dec 1922		Prince of Wales class with Walschaert valve motion	
82	C	21442	General arrangement & details for fitting 3 feed "Detroit" vacuum lubricator	22 Dec 1922		Prince of Wales class	
82	C	21445	Details of holes in frame plates, buffer plates, etc.	4 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type	
82	C	21446	Detail of trailing drawhook	4 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type	
82	C	21447	General arrangement of injectors	28 Dec 1922		4'3" 8 coupled side tank, 0-8-4 type	
82	C	21449	Details of reservoir and clips	8 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type	
83	C	21450	Details of piston valves, liners, spindles and crossheads	10 Jan 1923		Claughton class	5 engines fitted for trial
83	C	21451	General arrangement of auto vacuum brake pipes and carriage heating apparatus	9 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type	
83	C	21454	Details of castings for brake gear	11 Jan 1923	1 Nov 1943	4'3" 8 coupled side tank, 0-8-4 type	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
83	C	21456		Details of handrails and steps at back of bunker	17 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type	
83	C	21457		Details of handrails and vacuum pipes	17 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type	
83	C	21460		Details of forgings for brake gear	23 Jan 1923	18 Mar 1940	4'3" 8 coupled side tank, 0-8-4 type	
83	C	21462		General arrangement of gear for mechanical lubrication of axles ("Wakefields")	30 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type	
83	C	21463		Details of gear for mechanical lubricators of axles ("Wakefields")	30 Jan 1923		4'3" 8 coupled side tank, 0-8-4 type	
83	C	21467		Details of piston valves, liners, spindles and crossheads	30 Jan 1923		Engines with 20 1/2 in. diameter cyls. (superheated) fitted with "Horwich" type of piston valves	5 engines of each of Prince of Wales, George V and G1 or G2 classes
83	C	21468		General arrangement of auto vacuum brake pipes and carriage heating apparatus (end views)	5 Feb 1923		4'3" 8 coupled side tank, 0-8-4 type	
83	C	21470		Details of foot boards	9 Feb 1923	4 Jan 1938	4'3" 8 coupled side tank, 0-8-4 type	
83	C	21472		Details of lamp brackets	5 Feb 1923		4'3" 8 coupled side tank, 0-8-4 type	
83	C	21473		General arrangement of fittings for "Detroit" 3 feed vacuum lubricator	5 Feb 1923		4'3" 8 coupled side tank, 0-8-4 type	
83	C	21494		Cast iron base plate for "Ross" type safety valve	3 Mar 1923		Division "A" engines	Paper copy in Crewe Unnumbered series
83	C	21512		General arrangement of brake gear	10 Mar 1923	13 Mar 1940	4'3" 8 coupled side tank, 0-8-4 type	
83	C	21513		Oil box for radial truck axle box, reference letters V3 and V4	14 Mar 1923		Standard fitting	
83	C	21536		Diagrams of reversing rods	12 Mar 1923		8 classes of engine fitted with "Joy's" valve gear	
83	C	21550		General arrangement of drop fire grate	16 Apr 1923		Cloughton class	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
83	C	21574	Application of Lion packing to high pressure piston rods and valve spindles	21 Mar 1923		7'0" and 4'3" 4 cylinder compound engines	
83	C	21575	Lubricating for driving and intermediate axles	24 Nov 1924	3 Mar 1942	4'3" 8 coupled coal engine	
83	C	21581	Alteration required to suit Midland Division loading gauge	24 May 1923		5'0" 6 coupled 19" cylinders engine	
83	C	21582	Alteration to motion plate to give more clearance for connecting rod	4 Dec 1922		Prince of Wales, Experiment, 5'6" 6 coupled tank and 5'0" 6 coupled 19" cylinders engines	
83	C	21668	Diagram of vacuum exhaust pipe - particulars of piecing-up pipes when required	16 July 1923		Many class of passenger and goods locomotive	
83	C	21675	Diagram of boiler	14 Aug 1923		Wirral Railway locomotive no. 8	
83	C	21677	Details of brasses for a marine pattern connecting rod	10 Aug 1923	28 May 1943	Division "A" engines 4-6-0 & 4-6-2 fitted with "Joy's" motion	
83	C	21678	Details of alterations required to marine pattern connecting rod	8 Aug 1923		Division "A" engines 4-6-0 & 4-6-2 fitted with "Joy's" motion	with 2 5/8 in. dia. Gudgeon pin and 1 5/8 in. dia. jack link pin
83	C	21680	Alteration required to suit Midland division loading gauge	30 Jul 1923		6'0" 4 coupled side tank engine	
83	C	21681	Details and position of engine number plate on smokebox door	14 Aug 1923		Standard fitting	
84	C	21706	Arrangement of 21" vacuum sack (boiler ring)	3 Sep 1923		5'0" 6 wheel coupled saddle tank engine for DN&GR (?Dublin, Newry and Greenore?)	
84	C	21707	Details of cast iron brackets, brake shaft, reservoir, etc. for 21" vacuum sack	3 Sep 1923		5'0" 6 wheel coupled saddle tank engine for DN&GR (?Dublin, Newry and Greenore?)	
84	C	21708	General arrangement of carriage heating apparatus	27 Sep 1923		G1 and G2 classes (superheated)	
84	C	21755	Details of holes in frame plates	15 Oct 1923	19 Dec 1946	Prince of Wales class fitted with Walschaert's valve motion	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
84	C	21771	Details of jack link for marine type connecting rods for Division A engines 4-6-0 & 4-6-2 types fitted with Joy's motion	23 Jul 1923		LMS Division A engines	
84	C	21774	Details of piston valves and liners (valves 31/32" lap)	1 Nov 1923		Prince of Wales class fitted with Walschaert's valve motion	
84	C	21790	Details of boiler smoke tubes	27 Dec 1923		LMS Division A engines - many classes of goods and passenger engines	
84	C	21797	Detail of foundation ring for Belpaire boiler	10 Nov 1923		Prince of Wales and Experiment classes and 5'0" 6 coupled 19" goods engine	
84	C	21798	Seating block on Belpaire boiler for whistle stand	10 Nov 1923		Prince of Wales and Experiment classes and 5'0" 6 coupled 19" goods engine	
84	C	21804	Details of steel and copper flanged plates for Belpaire type of boiler	7 Nov 1923		Prince of Wales and Experiment classes	
84	C	21805	Belpaire type boilers - detail of ashpan	25 Oct 1923	16 Jul 1934	Prince of Wales and Experiment classes and 5'0" 6 coupled 19" goods engine	
84	C	21806	Belpaire type boilers - safety valve seating and casing for "Ross" type valves	14 Nov 1923		Prince of Wales, George V, Experiment, G1 and G2 classes and 5'0" 6 coupled 19" goods engine	
84	C	21807	Details of firebox for Belpaire boiler	24 Nov 1923	16 Mar 1939	Prince of Wales class	
84	C	21808	Details of standard firehole for locomotives fitted with Belpaire boiler	22 Nov 1923		Standard fitting	
84	C	21809	Details of axles	12 Nov 1923		Wirral Railway locomotive nos. 3 and 5	
84	C	21825	Detail of compression reducing valve - 3 1/2" bore circular lift valve	24 Nov 1924		Prince of Wales class	
84	C	21828	Detail of intermediate and trailing axleboxes	12 Dec 1923	29 Nov 1944	Prince of Wales class	Also for Prince of Wales Experiment classes and 5'0" 6 coupled goods engines (19" and 26" cylinders)

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
84	C	21829	Detail of outer firebox and back strengthening stays & longitudinal stay steadying bracket for Belpaire type of boiler	17 Jan 1924	16 Mar 1939	Prince of Wales class	Also for George V and Experiment classes and 4'3" 8 coupled coal (superheated) and 5'0" 6 coupled goods engines
84	C	21832	Cover for filling hole in tank	27 Nov 1923		4'3" 4 wheel coupled shunting engine	
84	C	21834	Details of boiler and firebox stays for Belpaire type boilers, 5'2" diameter	18 Dec 1923	25 Jul 1935	Prince of Wales, George V and 4'3" 8 wheel coupled classes	Also Experiment class and 5'0" 19" goods engine
84	C	21835	Details of marine pattern connecting rod for engines fitted with Walschaert's motion	27 Dec 1923	1 May 1935	Prince of Wales class	
84	C	21840	Details of boiler, Belpaire type	19 Oct 1923	10 Mar 1939	5'0" 6 coupled goods engine - 18" cylinders	
84	C	21841	Detail of frame for number plates on tenders and detail of spring	17 Dec 1923		Tender	
84	C	21846	Details of foundation ring for Belpaire boiler	4 Dec 1923		4'3" 8 wheel coupled coal engine, classes G1, G2 and 0-8-4 tank	
84	C	21847	Seating block on Belpaire boiler for whistle stand	4 Dec 1923		4'3" 8 wheel coupled coal engine, classes G1, G2 and 0-8-4 tank	
84	C	21848	Details of steel and copper flanged plates	4 Dec 1923		4'3" 8 wheel coupled coal engine, classes G1, G2 and 0-8-4 tank	
85	C	21850	Detail of angle iron bracket for ash-pan casting	18 Dec 1924		Cloughton class	
85	C	21853	Detail of steel and copper flanged for Belpaire boiler	3 Jan 1924		George V class	
85	C	21855	Seating plate for whistle stand	3 Jan 1924		5'0" 6 wheel coupled goods engine (18" cylinders) fitted with Belpaire boiler	
85	C	21856	Details of flanged plates for boilers	5 Jan 1924		5'0" 6 wheel coupled goods engine (18" cylinders) fitted with Belpaire boiler	
85	C	21857	Detail of foundation ring for Belpaire boiler	3 Jan 1924		5'0" 6 wheel coupled goods engine (18" cylinders) fitted with Belpaire boiler	Also used for 7 other classes



Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
85	C	21858		Detail of foundation ring for Belpaire boiler	22 Nov 1923		George V class	
85	C	21859		Slide valve - experimental reference no. 325	16 Oct 1923		Precursor class also after December 1923 standard for 12 other classes	
85	C	21860		Details of stiffening plates on frame over driving and intermediate axles	3 Jan 1924		5'6" 6 coupled side tank engine	
85	C	21864		Arrangement of injector delivery pipes and steam pipes for whistle stand and blower	17 Jan 1924	28 May 1942	Prince of Wales, George V, Experiment and G2 classes and 5'0" 6 coupled 19" goods engine	
85	C	21865		Detail of lagging for boiler	15 Jan 1924		Prince of Wales class fitted with Belpaire boiler	Also Experiment class
85	C	21866		Arrangement and detail of baffle plate in dome	17 Jan 1924		Prince of Wales, George V, Experiment and G2 classes and 5'0" 6 coupled 19" goods engine	
85	C	21877		Details of strengthening plates, angles etc. for boiler	30 Jan 1924	28 Mar 1939	5'0" 6 wheel coupled goods engine (18" cylinders) with Belpaire firebox	
85	C	21878		Details of boiler and firebox stays	17 Jan 1924		5'0" 6 wheel coupled goods engine (18" cylinders) with Belpaire firebox	
85	C	21879		Details of standard washout and fusible plugs	27 Feb 1925		Many classes of passenger and goods engine	
85	C	21882		Details of cab windows	17 Jan 1924	18 Jun 1957	Prince of Wales class fitted with Belpaire boiler	Also used for George V, Experiment classes and 4'3" 8 coupled coal and 5'0" 6 coupled goods (19" x 26" cyls.)
85	C	21883		General arrangement and details of damper gear etc.	15 Jan 1924		Prince of Wales class fitted with Belpaire boiler	Also used for Experiment class and 19" goods engines with Belpaire boilers
85	C	21886		Details of firebox stays and carrying angles	12 Feb 1924		4'3" 6 wheel coupled coal engine and 5'0" 6 wheel coupled coal engine (special DX)	Also 5'6" 4 wheel coupled side tank and 6'0" & 6'6" 4 coupled passenger (straight link) boilers
85	C	21887		Detail of strengthening plate	12 Feb 1924		Engine 93 - G1 class engine (superheated)	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
85	C	21890		Details of fittings for 3 feed "Detroit" vacuum lubricator	12 Feb 1924		Prince of Wales class fitted with Belpaire boiler	
85	C	21891		General arrangement of 3 feed "Detroit" vacuum lubricator	12 Feb 1924		Prince of Wales class fitted with Belpaire boiler	
85	C	21892		General arrangement of vacuum pipes	20 Feb 1924		Prince of Wales class fitted with Belpaire boiler	
85	C	21894		Details of fittings for regulator valve	13 Nov 1923		LMS Division A engines with 5'2" diameter Belpaire boilers	Used for George V, Experiment classes and 4'3" 8 coupled coal and 5'0" 6 coupled goods (19" x 26" cyls.)
85	C	21895		Details of cab and panel plates	31 Dec 1923		6'0" 6 coupled passenger engines also Claughton class and 5'0" 19" goods engine	
86	C	21901		Detail of whistle stand	20 Feb 1924		Prince of Wales class & 7 other classes fitted with Belpaire boiler	
86	C	21902		Details of boiler mountings for Belpaire boiler	8 Mar 1924		10 classes of locomotive	
86	C	21904		Details of cab & panel plates	29 Feb 1924		George the Fifth class with Belpaire boiler	
86	C	21907		Detail of covering plates for panels	8 Mar 1924		Prince of Wales with Belpaire boiler, Geo.V, Precursor, Experiment & 5'0" six wc goods 19" cyls.	
86	C	21908		Detail of lagging for boiler	29 Feb 1924		George the Fifth class with Belpaire boiler	
86	C	21910		Detail of lagging for boiler	26 Mar 1924		G1 & G2 fitted with Belpaire boiler	
86	C	21912		Diagram of studs required for outside boiler mountings	10 Mar 1924		LMS Belpaire type boilers 5'2" dia	
86	C	21916		Arrangement of injector delivery pipes & steam pipes for whistle stand & blower	15 Mar 1924		Special DX 5'0" six wc goods	Also 4'3" six wc coal engines, 6'0" & 6'6" four wc st. link pass engines & 5'6" four wc side tank
86	C	21918		Detail of ashpan	14 Mar 1924		George the Fifth class with Belpaire boiler	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
86	C	21920		General arrangement of vacuum brake gear with increased brake power	7 Apr 1924		G1 & G2 fitted with piston valves	
86	C	21921		Arrangement of firebox roofing bars & stays	12 Feb 1924		For 9 classes fitted with 4'2" diameter boilers	
86	C	21924		Details of cab windows	26 Mar 1924		5'0" six wc goods engine with 18" cylinders fitted with Belpaire boiler	
86	C	21928		Details of lagging for boiler	1 Apr 1924		5'0" six wc goods engine with 18" cylinders fitted with Belpaire boiler	
86	C	21933		Copper firebox	4 Apr 1924		Wolverton steam tram No. 2	
86	C	21937		General arrangement of auto vacuum brake	28 Mar 1924		George the Fifth class with Belpaire boiler	
86	C	21940		Details of cab & panel plates	7 Apr 1924		5'0" six wc goods engine with 18" cylinders fitted with Belpaire boiler	
86	C	21941		Safety valve seating & casing for Ross type valves	28 Feb 1924		5'0" six wc goods engine with 18" cylinders fitted with Belpaire boiler	
86	C	21948		Arrangement & details for fitting Midland Division type of water gauges	25 April 1924		Cloughton class	
86	C	21951		Arrangement of carriage heating apparatus	26 Apr 1924		George the Fifth class with Belpaire boiler	
86	C	21953		Details of cab & panel plates	29 April 1924		G1 & G2 fitted with Belpaire boiler	
86	C	21954		Detail of castings & forgings for vacuum brake	17 May 1924		5'0" six wc goods engine with 19" cylinders	
86	C	22008		Radial truck axlebox with reduced bearing surface for straight journal	6 May 1924	28 Nov 1944	Cloughton class	This axlebox used for 10 other classes with straight journals
86	C	22009		Radial truck axlebox with reduced bearing surface for curved journals	6 May 1924	28 Nov 1944	Cloughton class	This axlebox used for 10 other classes with curved journals

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
86	C	22224	Detail of ashpan	4 Jun 1924	16 Jul 1934	G1 & G2 fitted with Belpaire boiler	
87	C	22308	Details of brake shaft, vacuum reservoir slings & left hand bracket	2 Jul 1924		4'3" six wc special tank engine	
87	C	22309	Arrangement of 21" vertical sack (roller ring)	2 Jul 1924		4'3" six wc special tank engine	
87	C	22310	Details of brake shaft, vacuum reservoir & slings, brackets etc:	2 Jul 1924		4'3" six wc special tank engine	
87	C	22311	Arrangement of vertical sack (roller ring)	2 Jul 1924		4'3" six wc special tank engine	
87	C	22314	Alteration to driving axlebox & big end bearing	2 Jul 1924		G2 class with solid forged crank axle	
87	C	22327	Diagram sheet of standard lamp brackets	2 Jul 1924		Standard fitting	
87	C	22333	Arrangement & details for fitting Midland Division type of water gauge	14 Jul 1924		Prince of Wales, Experiment, 19" goods,G,D,G1,G2, compound F, 0-8-2 & 0-8-4 side tank	
87	C	22341	General arrangement of vacuum brake gear (two sacks)	22 Jul 1924		G1 & G2 fitted with Belpaire boiler	
87	C	22342	General arrangement of vacuum brake gear (two sacks)	22 Jul 1924		G1 & G2 fitted with Belpaire boiler	
87	C	22351	Arrangement for fitting Midland Division water gauge	31 Jul 1924		George the Fifth, Precursor & 6'0" four wc side tank	
87	C	22353	Cap for left hand reversing shaft bracket	6 Aug 1924		16 classes of locomotives fitted with Joy's valve gear	
87	C	22357	Arrangement of carriage heating apparatus	9 Jul 1924		5'0" six wc goods engine fitted with Belpaire boiler & 18" cylinders	
87	C	22358	General arrangement & details for fitting 3 feed "Detroit" vacuum lubricator	12 Aug 1824		George the Fifth class	
87	C	22359	Details of 4 1/2" pipes for exhaust steam injectors	12 Aug 1924		Claughton & Prince of Wales classes	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
87	C	22360		Alteration required to suit Midland Division loading gauge	14 Aug 1924		7'0" four wc Renown class	
87	C	22365		New standard dome for locomotives	19 Aug 1924		16 classes of locomotive	
87	C	22370		General arrangement & details of spark arrestor	14 Aug 1924		4'3" eight wc side tank shunting engine (0-8-2)	
87	C	22378		General arrangement of carriage heating apparatus	9 Sep 1924		G1 & G2 classes, superheated fitted with Belpaire boiler & 20 1/2" cylinders	
87	C	22379		Detail of cover plate over reversing screw	18 Sep 1924		Prince of Wales, George Fifth, Experiment, 19" goods (all fitted with Belpaire boiler)	
87	C	22380		General arrangement of auto vacuum brake	28 Jul 1924		5'0" six wc goods (19" cyls.)	
87	C	22383		Dust shield for radial truck axlebox	6 Oct 1924	4 Feb 1957	George Fifth, Prince of Wales, 19" goods (for trial on 5 of each class)	Midland type underfeed lubrication
87	C	22384		Radial truck axlebox oil pad	6 Oct 1924		George Fifth, Prince of Wales, 19" goods (for trial on 5 of each class)	Midland type underfeed lubrication
87	C	22385		Cast iron making up block for radial truck axlebox keep	6 Oct 1924		George Fifth, Prince of Wales, 19" goods (for trial on 5 of each class)	Midland type underfeed lubrication
87	C	22386		Details of intermediate & trailing axleboxes	8 Sep 1924	28 Nov 1944	5'6" six wc side tank engine	
87	C	22393		Details of steam pipes	7 Oct 1924		Experiment class fitted with superheater & flat valves	
87	C	22394		Details of brake shaft (steel casting)	21 Oct 1924		3000 gall. tender (without sloping bunker) fitted with vacuum sack & reservoir	
88	C	22414		Details of fittings for 3-feed 'Eureka' lubricator	9 Sep 1924		Superheated Experiment class with flat valves	
88	C	22415		General arrangement of 3-feed 'Eureka' lubricator	9 Sep 1924		Superheated Experiment class fitted with flat valves	

<b>Box</b>	<b>Prefix</b>	<b>Number</b>	<b>Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
88	C	22417		Details of cab window frames to suit Midland loading gauge	20 Nov 1924		Cloughton class	
88	C	22418		Alteration required to suit Midland Division loading gauge	15 Nov 1924		Cloughton class	
88	C	22436		Detail of brake shaft brackets & pipe clips	4 Dec 1924		G1 & G2 classes fitted with vacuum brake (2 sacks)	
88	C	22440		General arrangement of steam brake gear (with increased brake power)	6 Dec 1924		4'3" four wc shunting engine	
88	C	22463		Whistle stand for engines fitted with Parry's blower (round top boilers)	29 Dec 1924		Prince of Wales, Experiment, George the Fifth, Precursor (2 engines from each class)	
88	C	22465		Details of castings for exhaust steam injectors (1924 type)	29 Dec 1924	19 Dec 1934	Cloughton class	
88	C	22466		Details of forgings for exhaust steam injector (1924 type)	29 Dec 1924		Cloughton class	
88	C	22474		Arr. of exhaust steam injector (1924 type), details of exhaust steam pipes & alteration to ashpan	22 Jan 1925		Cloughton class	
88	C	22476		Details of castings sheet No. 1	30 Jan 1925		Prince of Wales class (with exhaust injector 1924 type)	
88	C	22477		Details of castings sheet No. 2	30 Jan 1925		Prince of Wales class (with exhaust injector 1924 type)	
88	C	22481		Details of forgings	9 Feb 1925		Prince of Wales class (with exhaust injector 1924 type)	
88	C	22486		Details of correct & incorrect way of fitting up big end brasses, strap & cotters	31 Dec 1924		General drawing	
88	C	22489		Details of additional work for strengthened brake gear	5 Feb 1925		4'3" four wc shunting engine	
88	C	22492		General arrangement of lubrication for steam chest & cylinders	7 Feb 1925		5'6" six wc side tank	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
88	C	22493		General arrangement of vacuum brake without air pump	5 Feb 1925		4'3" eight wc coal engines of G & D classes	
88	C	22495		Details of holes in flanges: Davies & Metcalfe exhaust steam injector & grease separator	19 Feb 1925		Claughton & Prince of Wales	
89	C	22505		Arrangement of exhaust steam injector (1924 type)	3 Mar 1925		Prince of Wales class	
89	C	22507		Arrangement and details for fitting Midland Division type of water gauge	18 Feb 1925		5'6" 6 coupled side tank	
89	C	22519		Details required for vacuum brake air and steam valves for use without air pump	15 Nov 1943		4'3" 8 coupled coal engines G1 and G2 classes fitted with Belpaire boiler	Date 1943 is correct
89	C	22520		Boiler	17 Nov 1923	7 Sep 1936	5'0" 6 coupled goods special DX engine	Also used for 4'3" 6 coupled coal, side tank coal and saddle tank coal engines
89	C	22524		Detail of lagging for boiler	22 Jan 1925		5'0" 6 coupled goods engine (19" cylinders) fitted with Belpaire type boiler	
89	C	22525		Details of outer firebox side strengthening plates and holding down angles for Belpaire boilers 5'2" diameter	19 Feb 1925		Several classes, including George V and 5'0" 6 coupled goods engine (19" cylinders)	
89	C	22527		General arrangement of boiler (Belpaire type)	22 Jan 1925	15 Mar 1939	5'0" 6 coupled goods engine (19" cylinders)	
89	C	22529		General arrangement of boiler (Belpaire type)	30 Jan 1925	7 Sep 1936	Experiment class with Belpaire boiler	
89	C	22530		Arrangement and details of steam pipe for blower and lubricator pipe in boiler	24 Apr 1925		Experiment class with Belpaire boiler	Also used for 5'0" 6 coupled 19" goods engine
89	C	22539		Details of stand pipe bracket in dome	8 Apr 1925		Many classes of passenger and goods engine	
89	C	22540		Details of steam pipes and flanges for regulator	8 May 1925		5'6" 4 coupled side tank, 6'0" and 6'6" 4 coupled straight link passenger engines	
89	C	22562		Details of brake gear for radial truck	7 May 1925		5'0" 6 wheel coupled coal engine 19" x 26" cylinders	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
89	C	22684		Arrangement of lubricator pipe in boiler from footplate to smokebox tubeplate	1 Jul 1925		5'6" 4 coupled side tank passenger engine	Also used for 6'6" and 6'0" 4 coupled (straight link) passenger engines
89	C	22797		Arrangement of leading vacuum sack for engines fitted with increased brake power	12 Aug 1925		Cloughton class	
89	C	22798		Sectional view of vacuum brake arrangement with increased brake power	12 Aug 1925		Cloughton class	
89	C	22799		Additional details of brake gear required for engines fitted with increased brake power (2 vacuum sacks)	12 Aug 1925		Cloughton class	
89	C	22800		General arrangement of vacuum brake with increased brake power	12 Aug 1925		Cloughton class	
89	C	22916		Details of driving and trailing axle boxes	9 Sep 1925		Ex WD 2-8-0 mineral engine (Consolidation type)	
89	C	22917		Details of leading and intermediate axle boxes	21 Sep 1925		Ex WD 2-8-0 mineral engine (Consolidation type)	
89	C	23617		Patch plate at driving axle extended 4" to suit fractured frames	23 Dec 1925		Prince of Wales class	
89	C	23706		Details of cylinder cock gear	24 Jan 1926		4'3" four wc shunting engine with increased brake power	
89	C	23743		Details of steam pipes	5 Jan 1926		Experiment class fitted with Belpaire boiler	
89	C	23744		Details of steam pipes	5 Jan 1926		5'0" 6 coupled 19" goods engine fitted with Belpaire boiler	
89	C	23745		Details of steam pipes	5 Jan 1926		5'0" 6 coupled 19" goods engine fitted with Belpaire boiler	
89	C	23746		Details of steam pipes	5 Jan 1926		Experiment class fitted with Belpaire boiler	
90	C	23816		Diagram of copper tubeplates for locomotive fireboxes - Sheet No. 1	2 Sep 1925		12 classes of passenger engine	
90	C	23817		Diagram of copper tubeplates for locomotive fireboxes - Sheet No. 2	23 Nov 1925		21 classes of goods and coal engine	



Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
90	C	23818		Diagram of copper tubeplates for locomotive fireboxes - Sheet No. 3	4 Dec 1925		10 classes of goods and coal engine	
90	C	23935		L.P. piston and front cover	11 May 1926		4-6-2 and 2-8-2 superheated compound engines	
90	C	23969		Detail of main drive shaft bearing	7 Nov 1930		Claughton class fitted with Caprotti valve gear	
90	C	24179		Reversing gear, arrangement at leading end	21 Nov 1930		Claughton class fitted with Caprotti valve gear	
90	C	24189		Detail of steam pipes in smokebox	none		Claughton class fitted with Caprotti valve gear	
90	C	24201		Detail of felt washers for gears	7 Nov 1930		Claughton class fitted with 5'2" diameter boiler and Caprotti valve gear	
90	C	24233		H.P. piston and front cylinder cover	2 Jul 1926		4-6-2 and 2-8-2 superheated compound engines	
90	C	24234		H.P. back cylinder cover and gland	14 Sep 1926		4-6-2 and 2-8-2 superheated compound engines	
90	C	24235		By-pass valve pipe and casing for H.P. cylinder	2 Jul 1926		4-6-2 and 2-8-2 superheated compound engines	
90	C	24236		By-pass valve for L.P. cylinder	2 Jul 1926		4-6-2 and 2-8-2 superheated compound engines	
90	C	24254		Back L.P. cylinder end, stuffing box and gland	6 Jul 1926		4-6-2 and 2-8-2 compound engines	
90	C	24255		Metallic packing for L.P. cylinders	6 Jul 1926		4-6-2 and 2-8-2 compound engines	
90	C	24295		Detail of frame and covering plates	18 Dec 1930		Claughton class fitted with Caprotti valve gear	
90	C	24296		Arrangement of lubricating pipes from "Detroit" 4 feed lubricator	4 Oct 1932		Claughton class fitted with Caprotti valve gear	
90	C	24304		Arrangement of end without lever and detail of bracket	30 Jul 1926		Standard 57'0" carriages for motor trains	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
90	C	24305		Arrangement of driving end and detail of bracket for same	30 Jul 1926		Standard 57'0" carriages for motor trains	
90	C	24306		Diagram of rodding under carriage	30 Jul 1926		Standard 57'0" carriages for motor trains	
90	C	24307		Details for regulator gear in carriages	30 Jul 1926		Standard 57'0" carriages for motor trains	
90	C	24308		Arrangement of driving gear in carriages	30 Jul 1926		Motor trains	
90	C	24391		L.P. piston tail rod cover and bush	14 Sep 1926		4-6-2 and 2-8-2 superheater compound engines	
90	C	24633		Details of additional castings for air and steam valves	29 Nov 1926		5'0" 6 coupled goods engine (19" cylinders) fitted with Belpaire type boiler and steam brake	
90	C	24678		Arrangement of firebox arch - Midland type	14 Feb 1929		Claughton class 5'2" diameter boiler	
90	C	24699		General arrangement of auto vacuum brake gear	12 Jan 1927		5'0" 6 coupled 19" goods engine fitted with Belpaire boiler and steam brake	
91	C	24711	PC	Alteration to position of "Detroit" 3 feed lubricator	none		4'3" 8 coupled coal engine G1 and G2 classes	
91	C	24711		General arrangement of "Detroit" lubricator	17 Dec 1918	19 Nov 1937	4'3" 8 coupled coal engine G1 and G2 classes	
91	C	24748		Details of fittings for car heating and vacuum brake	6 Apr 1927		Claughton and Prince of Wales classes fitted with M.M. tenders	
91	C	24766		Details of castings for water pickup	15 Mar 1927		Claughton and Prince of Wales classes with M.M. tenders	
91	C	24767		Details for water pickup	15 Mar 1927		Claughton and Prince of Wales classes with M.M. tenders	
91	C	24768		Arrangement and details for coupling up M.M. tenders	12 Feb 1927		Claughton and Prince of Wales classes with M.M. tenders	
91	C	24769		Castings for brake gear	15 Mar 1927		Claughton and Prince of Wales classes with M.M. tenders	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
91	C	24777	Patch plate at intermediate axle	18 Dec 1930		Prince of Wales class	
91	C	24783	Arrangement of water pickup	26 Mar 1927		Claughton and Prince of Wales classes with M.M. tenders	
91	C	24784	Details of central buffing gear	26 Mar 1927		Claughton and Prince of Wales classes with M.M. tenders	
91	C	24785	Details of lamp brackets	26 Mar 1927		Claughton and Prince of Wales classes with M.M. tenders	
91	C	24818	Details of steel and copper flanged plates	5 Apr 1927		Claughton class fitted with Belpaire boiler 5'5" diameter	
91	C	24819	Details of oval pattern firehole	10 Jun 1927		Claughton class fitted with Belpaire boiler 5'5" diameter	
91	C	24820	Arrangement and details of gang way doors	14 Apr 1927		Claughton class with M.M. tenders	
91	C	24833	Details of forgings for brake gear	7 Apr 1927		Claughton and Prince of Wales classes with M.M. tenders	
91	C	24834	Arrangement and details of vacuum reservoir	6 Apr 1927		Claughton and Prince of Wales classes with M.M. tenders	
91	C	24836	Oiling arrangement for intermediate axleboxes on engines fitted with patch plates	22 Mar 1927		Prince of Wales class	
91	C	24839	Arrangement of vacuum brake gear	14 Apr 1927		Claughton and Prince of Wales classes fitted with M.M. tenders	
91	C	24840	Arrangement of vacuum brake and car heating pipes on boiler	14 Apr 1927		Claughton and Prince of Wales classes fitted with M.M. tenders	
91	C	24841	Alterations and additions to tender tank	11 May 1927		Claughton and Prince of Wales classes with M.M. tenders	
91	C	24926	Particulars for painting tenders	4 May 1927		M.M. tenders redesigned for Claughton and Prince of Wales classes	2353
91	C	24927	Arrangement and details of vacuum brake pipes and fittings	4 May 1927		Tenders for 4'8" 8 coupled Consolidation M.M. engines	

<b>Box</b>	<b>Prefix</b>	<b>Number</b>	<b>Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
91	C	24960		Arrangement and details of feed water gear	7 May 1927		Claughton and Prince of Wales classes fitted with M.M. tenders	
91	C	24990		Boiler arrangement	26 May 1927	17 Mar 1942	Claughton class fitted with Belpaire boiler 5'5" diameter	
92	C	25067		Detail of foundation ring	20 Jul 1927		Claughton class fitted with Belpaire boiler 5'5" diameter	
92	C	25137		Detail of tender capacity plate	16 Jun 1927		Claughton and Prince of Wales classes fitted with M.M. tenders	
92	C	25287		General arrangement of dome	8 Feb 1928		Claughton class fitted with Belpaire boiler 5'5" diameter	
92	C	25327		Details of large and small smoke tubes and ferrules	8 Jul 1927		2-8-0 M.M. engines fitted with copper fireboxes	
92	C	25344		Details of outer firebox top and side strengthening plates, expansion angle iron, & angles for vertical expansion stays	20 Jul 1927		Claughton class fitted with Belpaire boiler 5'5" diameter	
92	C	25430		Details of filling up plates and holes in lagging for exhaust pipe brackets, expansion brackets of firebox, and tank stay brackets	8 Jul 1927		Many classes of engine	
92	C	25441		Arrangement of brake gear	6 Aug 1927		4'3" 6 wheel coupled side tank coal engine fitted with "Crocker" patent brake lever	
92	C	25442		Details of cross girder and cylinder carrying bracket	6 Aug 1927		4'3" 6 wheel coupled side tank coal engine fitted with "Crocker" patent brake lever	
92	C	25443		Details of additional castings for brake gear	6 Aug 1927		4'3" 6 wheel coupled side tank coal engine fitted with "Crocker" patent brake lever	
92	C	25444		Details of additional forgings for brake gear	6 Aug 1927		4'3" 6 wheel coupled side tank coal engine fitted with "Crocker" patent brake lever	
92	C	25451 rider		Clips for vacuum control regulator gear	24 Apr 1929		4'3" 6 wheel coupled side tank engine for motor train working	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
92	C	25451		Details of fittings for vacuum controlled regulator gear	8 Apr 1927		4'3" 6 wheel coupled side tank engine for motor train working	
92	C	25452	PC	Diagram of steel boiler smoke tubes for superheated engines	none		9 classes	
92	C	25452		Diagram of boiler smoke tubes (with copper ends) for superheated engines	6 Aug 1927	16 Jan 1935	9 classes	
92	C	25454		Details of steam passages under valves	11 Aug 1927		Cloughton class fitted with Caprotti valve gear	
92	C	25488		Details of copper firebox	1 Jun 1927		M.M. class 2-8-0 mineral engine (Consolidation type)	
92	C	25500		Diagram of superheater tubes	3 Oct 1927	18 Jun 1940	LMS Division A engines	
92	C	25517		Drilling arrangements for smokebox and firebox tube plates	26 Aug 1927	15 May 1942	Cloughton class fitted with Belpaire boiler 5'5" diameter	
92	C	25518		Arrangement of Midland type water scoop	23 Aug 1927		3000 gallon tender, Western A Division	
92	C	25519		Detail of delivery pipe to suit Midland type water scoop	23 Aug 1927		3000 gallon tender, Western A Division	
92	C	25520		Details for Midland type water scoop	23 Aug 1927		3000 gallon tender, Western A Division	
92	C	25521		Details for Midland type water scoop	3 Aug 1927		3000 gallon tender, Western A Division	
92	C	25524	PC	Ordering sizes for superheater and boiler tubes	none		Royal Scot class	Part copy of Derby drawing 27-10727
92	C	25660		Diagram shewing alteration to exhaust steam injector overflow pipe	30 Aug 1927		Prince of Wales class	
92	C	25661		Diagram shewing altered injector	30 Aug 1927		Midland 0-6-0 freight tank engines	
92	C	25664		Arrangement of Derby type steam blower	19 Sep 1927		Prince of Wales class	
92	C	25736		Arrangement of vacuum controlled regulator gear	23 Sep 1927		4'3" 6 wheel coupled side tank engine for motor train working	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
92	C	25784	Arrangement of Derby type steam blower	3 Oct 1927		Cloughton class	
92	C	25801	Firebox arrangement	16 Oct 1927	10 Dec 1942	Cloughton class fitted with Belpaire boiler 5'5" diameter	
92	C	25878	Seating for safety valve	15 Nov 1927		Cloughton class fitted with Belpaire boiler 5'5" diameter	
92	C	25879	2000 gallon locomotive tender	20 Aug 1900		2000 gallon tender	Has water scoop
93	C	26021	Details of driving spring gear (Derby pattern)	4 Nov 1927		Cloughton class	
93	C	26028	Arrangement of Derby pattern blow of cocks on Divn. 'A' engines	4 Nov 1927		21 classes of locomotives	To suit hot water washing out plant.
93	C	26029	Arrangement of Derby pattern blow of cock	10 Nov 1927		Prince of Wales & Experiment classes fitted with round top boilers	For hot water washing out plant at Willesden depot
93	C	26045	Detail of boiler & firebox stays	21 Nov 1927		Cloughton class fitted with Belpaire boiler 5'5" diameter	
93	C	26056	Arrangement (rear end) & details of reversing gear	2 Jan 1928		Cloughton class fitted with Caprotti valve gear	
93	C	26080	Firebox sections	11 Nov 1927		Cloughton class fitted with Belpaire boiler 5'5" diameter	
93	C	26182	Reversing gear castings	2 Jan 1928		Cloughton class fitted with Caprotti valve gear	
93	C	26224	Internal pipe arrangement	19 Nov 1927		Cloughton class fitted with Belpaire boiler 5'5" diameter	
93	C	26257	Detail of tubes	20 Dec 1927		Cloughton class fitted with Belpaire boiler 5'5" diameter	
93	C	26258	Details of cam drive gear box	2 Jan 1928		Cloughton class fitted with Caprotti valve gear	
93	C	26305	Details of main drive on intermediate axle	2 Jan 1928		Cloughton class fitted with Caprotti valve gear	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
93	C	26339	Details of longitudinal stay bracket & pipe clips	23 Jan 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
93	C	26368	Casings for dome & safety valve	9 Jul 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
93	C	26411	Arrangement of pipes in boiler	7 Jul 1921			Ex WD 2-8-0 mineral engine
93	C	26495	Adaptation of Midland oil pad to axleboxes for 11" x 5 1/2" journals	23 Mar 1931			3000 gallon tender
93	C	26496	Firehole protection plate	23 Jan 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
93	C	26565	Arrangement of cam drive gear box	24 Jan 1928			Claughton class fitted with Caprotti valve gear
93	C	26575	Nameplates	23 Jan 1928			Royal Scot class
93	C	26582	Details of screw coupling	31 Jan 1928			Ex WD 2-8-0 mineral engine
93	C	26589	Arrangement of smokebox	1 May 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
93	C	26594	Details of firehole stiffening plate	25 Feb 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
93	C	26596	Details of lagging for boiler	25 Apr 1930			Claughton class fitted with Belpaire boiler 5'5" diameter
93	C	26597	Seatings for boiler fittings	27 Feb 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
94	C	26607	Details of stand pipe & regulator gear	6 Apr 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
94	C	26610	Alterations to pipes & connections	16 May 1928			4'3" six wc side tank engine, fitted with vacuum controlled regulator gear for motor train working
94	C	26648	Relation of George the Fifth, G1 & G2 classes to Midland Division loading gauge	30 Jan 1928			George the Fifth & classes G1 & G2

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
94	C	26649	Relation of Claughton class to Midland & Northern Division loading gauges	30 Jan 1928		Claughton & Prince of Wales classes	Also relation of Prince of Wales engines to Mid. Div. Loading gauge
94	C	26651	Steam valve & details for "Parry" blower & exhaust injector	1 May 1928		Claughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26652	Alteration required to suit Northern Division (12' 11") loading gauge	1 May 1928		Claughton class fitted with Belpaire boiler 5'2" diameter	
94	C	26667	Arrangement of "Parry" blower	4 Apr 1928		Claughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26699	Details of ashpan	27 Feb 1928		Claughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26709	Particulars of cab	9 Jul 1928		Claughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26711	Details of smokebox foundation casting & extension plate	23 Feb 1928		Claughton class fitted with Caprotti valve gear & 5'5" diameter boiler	
94	C	26717	Details & arrangement of steadying bracket for boiler	4 Apr 1928		Claughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26720	Details of casting for ashpan	No date		Claughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26722	Arrangement of steam sanding gear & small ejector steam pipe	29 Oct 1928		Claughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26723	Details of sandbox adaptor for steam sanding gear	6 Mar 1928		Claughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26724	Details of steam sanding gear	9 Jul 1928		Claughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26725	Arrangement of exhaust steam injector (1924 type) & details of exhaust steam pipes	1 Oct 1928		Claughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26727	Exhaust pipe branch for ejector	5 Apr 1928	24 Jan 1940	Claughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26728	Detail of cab window frames	1 May 1928		Claughton class fitted with Belpaire boiler 5'5" diameter	



Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
94	C	26731	Arrangement of No.10 Gresham & Craven live steam injector fitted with 11mm cones	9 Jul 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
94	C	26736	Left hand injector feed cock gear & footstep stay	5 Apr 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
94	C	26739	Smokebox door, 4' '7 3/4" diameter, & details-Division 'A' engines	18 Dec 1930			13 locomotive classes
94	C	26742	Details of casing for chain drive on reversing gear	1 May 1928			Claughton class fitted with Caprotti valve gear
94	C	26743	Detail of cast iron chimney	22 Aug 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
94	C	26754	Details of handrail pillars & brackets	5 Apr 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
94	C	26764	Arrangement of smokebox	19 Nov 1928			Claughton class fitted with Caprotti valve gear
94	C	26766	Arrangement of exhaust steam injector (Davies & Metcalfe "H" type)	No date			Claughton class fitted with Caprotti valve gear & 5'5" diameter boiler
94	C	26766	Details of 4 1/2" pipes for exhaust steam injector	18 Dec 1930			Claughton class fitted with Caprotti valve gear & 5'5" diameter boiler
94	C	26767	Arrangement of exhaust steam injector	No date			Claughton class fitted with Caprotti valve gear & 5'5" diameter boiler
94	C	26776	Automatic Vacuum brake 30" (diaphragm) cylinder	No date			No class
94	C	26777	Steam header carrier, pump carrier for W. brake & tube plate protector plate	No date			WD 2-8-0 mineral engine
94	C	26779	Details of handrails & ejector gear	1 Oct 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
94	C	26783	Lubrication arrangement of driving & intermediate axle boxes	No date			Claughton class fitted with Belpaire boiler 5'5" diameter

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
94	C	26791		Details of ejector gear at footplate end	29 Oct 1928		Cloughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26792		Details of whistle operating gear	21 Aug 1928		Cloughton class fitted with Belpaire boiler 5'5" diameter	
94	C	26799		Arrangement of firebars	15 Oct 1928	18 Aug 1934	Cloughton class fitted with Belpaire boiler 5'5" diameter	
95	C	26800		Alterations required to existing splashers	5 Jun 1928		Cloughton class fitted with Belpaire boiler 5'5" diameter	
95	C	26807		Arrangement of handrails and ejector gear	19 Nov 1928		Cloughton class with 5' 5" dia. Belpaire boiler	
95	C	26810		Arrangement of smokebox front	1 May 1928		Cloughton class with 5' 5" diameter boiler	
95	C	26826		Arrangement and details of lubricator pipes along boiler for Detroit lubricator	3 Jul 1931		Cloughton class fitted with Caprotti valve gear and 5' 5" diameter boiler	
95	C	26835		Detail of smokebox bottom plates	19 Nov 1928		Cloughton class fitted with Caprotti valve gear and 5' 5" diameter boiler	
95	C	26870		Standard screw link couplings for engines and tenders	4 Jun 1928		Standard fitting	
95	C	26877		Solid drawn steel tubes	No date		0-8-0 freight engine (superheated)	
95	C	26887		Alteration required to dome to suit Northern Division 12' 11" loading gauge	19 Nov 1928		Cloughton class with 5'2" dia. Belpaire boiler	
95	C	26926		Bushes for blast pipe	24 Aug 1928		Cloughton class	
95	C	27007		Details for connecting reversing shafts by means of chains	11 May 1932		Cloughton class fitted with Caprotti valve gear	
95	C	27075		Detail of driving axlebox (7 1/2" diameter journal) with phosphor bronze keep	9 Aug 1928	14 Sep 1942	G1 class (superheated)	Also classes C, C1, D and G. Replaces drawings 19592 and 21144
95	C	27075		Driving axlebox (7 1/2" diameter journal)	3 Feb 1943	1 Oct 1948	G1 class (superheated)	Replaces earlier drawing with same number

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
95	C	27084	LMS standard headlamp	No date			Standard fitting
95	C	27085	Seating for safety valves	No date			Claughton class with 5'2" dia.boiler & altered to suit Northern Div. (12'11") loading gauge
95	C	27158	Pull rod for damper gear	11 Sep 1928			Claughton class fitted with Belpaire boiler 5'5" diameter
95	C	27177	Shield fitted to reversing gear to protect driver from draughts	28 Sep 1928			Prince of Wales class
95	C	27186	Details of bevel wheels on reversing shafts	18 Dec 1930			Claughton class fitted with Caprotti valve gear & lever reversing
95	C	27187	Details of castings for reversing shafts	21 Nov 1930			Claughton class fitted with Caprotti valve gear & lever reversing
95	C	27188	Details of reversing shafts	7 Nov 1930			Claughton class fitted with Caprotti valve gear & lever reversing
96	C	27361	Arrangement of lever reversing gear	21 Nov 1930			Claughton class fitted with Caprotti valve gear
96	C	27366	Arrangement and details of shield for scoop	22 Nov 1928			Claughton and Prince of Wales classes
96	C	27367	Alterations required for fitting of two Midland Division water gauges	21 Dec 1928			5'6" 6 coupled side tank fitted with superheater
96	C	27368	Detail of driving axlebox	2 Oct 1928	16 Jul 1943		5'6" 6 wheel coupled side tank and 6'0" 4 wheel coupled side tank
96	C	27377	Details of screen for tender wells	20 Nov 1928			Claughton and Prince of Wales classes
96	C	27383	Details of oil cup and locknut for valve boxes	No date			Claughton class fitted with Caprotti valve gear

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
96	C	27389		3000 gallon tender	No date		L&NWR 3000 gallon tender with sloping bunker	
96	C	27449		Arrangement and details of firebars and carriers	1 Jan 1929	16 Aug 1934	Cloughton class	
96	C	27467		Details of lagging brackets, stools, etc.	25 Apr 1930		Cloughton class with 5' 5" diameter Belpaire boiler	
96	C	27477		Arrangement and details for fitting Midland Division type of water gauge	6 Feb 1929		4'3" special tank engine, also 4'6" 4 coupled side tank and 4'3" 4 coupled shunter	
96	C	27480		Alteration to suit steam pipe joint at tubeplate	7 May 1930		Cloughton, Prince of Wales, George V, G1, G2, 5'6" tank and 5'0" 6 wheel coupled 19" goods classes	
96	C	27481		Arrangement and details for fitting Midland Division type of water gauges	6 Feb 1929		Ex WD 2-8-0 mineral engine (Consolidation type)	
96	C	27490		Arrangement and details for fitting Midland Division type of water gauge	4 Mar 1929		4'0" 4 coupled shunter	
96	C	27500		Arrangement of vacuum controlled regulator gear for motor train working	20 Feb 1929		5'6" 4 coupled side tank passenger engine	
96	C	27501		Details of fittings for vacuum controlled regulator gear for motor train working	11 Feb 1929		5'6" 4 coupled side tank passenger engine	
96	C	27519		Longitudinal section	Nov 1900		0-6-0 goods engine	
96	C	27612		Arrangement of carriage heating gear and gauge blocks	7 Oct 1931		Cloughton class with 5' 5" diameter Belpaire boiler	
96	C	27655		Details of tappet and thimble	No date		Caprotti valve gear	
96	C	27674		Chart and diagram shewing clearances in CL of four foot for Western Division "A" engines	22 Nov 1929		Very many classes	Very useful for record of Western Division classes and their average ages
96	C	27711		Details of tubeplates	2 Jan 1930		Cloughton class with 5' 2" diameter boiler	
96	C	27719		Diagram of steam brake cylinders and pipes	No date		2-8-0 M.M. engines	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
96	C	27724		Details of firebars	22 Nov 1929			Very many classes of LMS Western, Central, Midland and Northern divisions
97	C	27725		Details of spring reference letter W5	2 Jan 1930	19 Nov 1943		3000 gallon tender
97	C	27733		Brake shaft when fitted with "Tandem" vacuum brake sack	8 Jan 1930			4-6-2 5'6" side tank engines
97	C	27750		Brake shaft when fitted with "Tandem" vacuum brake sack	20 Mar 1930			4'3" 6 wheel coupled coal side tank engines
97	C	27752		Seating for boiler fittings	22 Nov 1929			George V, Prince of Wales, G1, G2 and 5'0" 6 coupled 18" and 19" goods and 6'0" 6 coupled express
97	C	27759		Details of brakework when fitted with "Tandem" vacuum brake sack	19 Mar 1930			George V and Precursor classes
97	C	27762		General arrangement and details of "Tandem" vacuum brake sack	3 Dec 1929			General drawing
97	C	27764		Detail of main drive (intermediate) axle and crank pins for driving wheels	2 Jan 1930			Cloughton class fitted with Caprotti valve gear
97	C	27798		Details of brakework when fitted with "Tandem" vacuum brake sack	20 Mar 1930			Prince of Wales and Experiment classes
97	C	27800		Details of axle bearings	28 Nov 1929			Wheel balancing machine
97	C	27821		Arrangement of rear end fitted with "Tandem" vacuum brake sack	19 Mar 1930			Experiment class
97	C	27822		Arrangement of rear end fitted with "Tandem" vacuum brake sack	18 Mar 1930			Prince of Wales class
97	C	27823		Details of rubber fittings for vacuum brake on engines and tenders	18 Dec 1930			Old LNW stock
97	C	27840		General arrangement of rear end fitted with "Tandem" vacuum brake sack	19 Mar 1930			0-6-2 4'3" coal side tank

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
97	C	27854		Details of brakework when fitted with "Tandem" vacuum brake sack	19 Mar 1930		0-6-2 4'3" coal side tank	
97	C	27856		Arrangement of rear end fitted with "Tandem" vacuum brake sack	19 Mar 1930		4-4-0 6'6" 4 wheel coupled, George V and Precursor classes	
97	C	27867		General arrangement of steam and automatic vacuum brake on engines with increased brake power	20 Mar 1930		Precursor class side tank	
97	C	27868		Details of brake gear for engines fitted with increased brake power	20 Mar 1930		Precursor class side tank	
98	C	27905		Lubricator and pipe from back of firebox to steam pipe	9 Feb 1908		No class specified	
98	C	27909		General arrangement of rear end when fitted with "Tandem" vacuum brake sack	20 Mar 1930		4-6-2 5'6" 6 coupled side tank engine	
98	C	27910		Details of brake gear when fitted with "Tandem" vacuum brake sack	19 Mar 1930		4-6-2 5'6" 6 coupled side tank engine	
98	C	27914		Air pump metallic packing	No date		No class specified	
98	C	27922		Detail of shed identification number plate and clip	No date		Western Division "A" engines	
98	C	27963		Firehole door casting, brick	No date		No class specified	
98	C	27974		Side and above views	11 Apr 1894		5'6" 4 wheel coupled 8 wheel side tank engine, cylinders 17" diameter, 24" stroke	Endorsed "Engine first built 10-90"
98	C	27991		Spherical seatings for boiler fittings	No date		George V and Prince of Wales classes	
98	C	28050		Details of back of firebox with oval firehole	No date	12 May 1947	5'0" 6 coupled 19" goods and 4'3" 8 coupled goods, G1 and G2 classes	
98	C	28051		Details of back of firebox with oval firehole	No date	15 Mar 1939	George V class	
98	C	28057		Caprotti valve gear balance pin	No date		No class specified	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
98	C	28058	Caprotti valve gear inlet roller	No date		No class specified	
98	C	28106	Tender sandbox details	No date	1 Sep 1930	Ex WD 2-8-0 mineral engine (Consolidation type)	
98	C	28182	Engine and tender tyres	11 Sep 1930		General	
98	C	28192	Caprotti valve gear balancing lever	No date		No class specified	
98	C	28193	Caprotti valve gear inlet valve	No date		No class specified	
98	C	28194	Caprotti valve gear inlet lever	No date		No class specified	
98	C	28195	Caprotti valve gear spring for tappet thimble	No date		No class specified	
98	C	28196	Caprotti valve gear inlet lever pin	No date		No class specified	
98	C	28250	Detail of trunnion lubrication	7 Nov 1930		3000 gallon tender with sloping bunker	
98	C	28288	Side and above views	11 Apr 1894		4'6" 8 wheel side tank passenger engine, cylinders 17" diameter, 20in stroke	
98	C	28289	Cross sections and end views	11 Apr 1894		4'6" 8 wheel side tank passenger engine, cylinders 17" diameter, 20in stroke	Endorsed "Engine first built 1-79"
98	C	28316	Standard cone unions for ejector steam pipe	No date		No class specified	
98	C	28385	Water gauge case in toolbox	18 Dec 1930		3000 gallon tenders	
98	C	28424	Gauge for tyre thickness on tread	No date		No class specified	Endorsed "not correct - see D2416"
98	C	28425	Steel wheel centres, details of rivet fastening	21 Nov 1930		No class specified	
98	C	28438	Details of motion plate etc.	7 Jul 1921		Ex WD 2-8-0 mineral engine (Consolidation type)	
98	C	28439	Steam brake valve	15 Mar 1923		Ex WD 2-8-0 mineral engine (Consolidation type)	Supplied by Messrs Gresham and Craven Ltd., Ordsall Lane, Salford

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
98	C	28440		Combined blower and circulating valve	22 Apr 1920		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28441		Brake shaft, carriers and piston rod for brake cylinder	13 May 1921		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28442		Rubbing block, guard bar and frame stay	12 Feb 1920		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28443		Hind drag casting	No date		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28444		Front splashers and footstep treads	7 Jul 1921		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28445		Diagram of steam valves in smokebox	14 Jul 1910		5'6" 6 coupled side tank engine without superheater	
99	C	28446		Hind splashers	No date		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28447		Leading sandbox	3 Jun 1921		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28448		Main reservoir, brake valve reservoir, isolating cock and coupling cock	7 Jul 1921		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28449		Details of buffer casing	9 Dec 1919		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28450		Smokebox view of front	8 Jun 1921		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28451		Rail washing valve	3 Jun 1921		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28452		Smokebox tube plate carrier and platform supports	8 Jun 1921		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28455		Details of air relief pipes on bunker	20 Nov 1911		5'6" 6 coupled side tank engine	
99	C	28457		Side view	5 Apr 1911		5'6" 6 coupled side tank engine without superheater, cylinders 18 1/2" diameter 26" stroke	Endorsed "First engine built December 1910"



Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
99	C	28459		End views	c1911		5'6" 6 coupled side tank engine with superheater, cylinders 20" diameter 26" stroke	Endorsed "First engine built January 1911"
99	C	28510		Diagram of wheels and axles for engine and tender	7 Jul 1915		Precursor class	
99	C	28511		Details of wheels and axles	3 Feb 1914		Experiment and Precursor classes	
99	C	28513		General arrangement	16 Apr 1921		George V class fitted with "Scarab" oil fuel system	
99	C	28519		Diagram of header casting and superheater tubes	1 Feb 1912		Claughton class	
99	C	28524		List of special and standard bolts	30 Dec 1889		4'3" 6 wheels coupled coal engine	
99	C	28525		List of pins and studs	30 Dec 1889		4'3" 6 wheels coupled coal engine	
99	C	28526		Side view with general information	1 Oct 1903		6'6" 4 wheels coupled passenger engine (with Joy's valve motion)	
99	C	28527		Side view with general information	13 Oct 1904		Experiment class	
99	C	28529		Tender brake details, screw and handle	3 Jun 1921		Ex WD 2-8-0 mineral engine (Consolidation type)	
99	C	28566		8" piston valve, narrow rings	28 Apr 1931	17 Jul 1935	Claughton class	
99	C	28578		Side view with general information	11 Jan 1912	30 Jun 1938	G1 class superheated	
99	C	28668		Diagram of locomotive wheels	No date		8 classes including Precursor and Claughton	
99	C	28669		Diagram of lamp bracket in tank engines	12 Sep 1911		Tank engines	
99	C	28674		8" piston valve, liners, spindle and crosshead	25 Jan 1932	25 Aug 1943	1 1/16" lap and 1/4" exhaust clearance - George V, Precursor, Prince of Wales, Experiment classes	Also G1, G2 & 0-8-4 side tank classes
99	C	28729		Radial track liners	No date		No class specified	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
99	C	28762		Details of back of firebox with oval firehole	24 Feb 1931	15 Mar 1939	Prince of Wales class with Belpaire boiler	
99	C	28785		Standard piston rings	No date	17 Jul 1935	"Old LNW"	
100	C	28810		Standard 4'7 3/4" diameter smoke box door and details	23 Mar 1931		13 Division "A" classes	
100	C	28811		Elevation, plan and sections	15 Nov 1896		4'3" 4 wheel coupled shunting engine	
100	C	28812		Cylinder valve facing machine	29 Jan 1889		6 wheels coupled goods engine	
100	C	28813		Elevation and plan	19 Oct 1906		5'0" 6 coupled goods engine	First engine built Dec 1906
100	C	28817		Elevation	16 May 1907		6'0" 4 wheel coupled side tank passenger engine	
100	C	28837		Asbestos mattress clothing	26 Nov 1925		Prince of Wales superheated with Belpaire boiler	
100	C	28838		Elevation	11 Jan 1912		Prince of Wales class	
100	C	28839		Elevation	14 Nov 1922		Prince of Wales superheated fitted with Walschaert's motion	
100	C	28840		Elevation	7 Apr 1924		Prince of Wales superheated with Belpaire boiler and fitted with Walschaert's motion	
100	C	28841		Elevation	18 Jan 1913		Cloughton class	
100	C	28847		Detail of exhaust balance lever spring	15 Apr 1931		Caprotti gear	
100	C	28851		Sections	7 Mar 1907		6'0" 4 wheel coupled side tank engine, 4-4-2	
100	C	28852		Elevation and plan	7 Mar 1907		6'0" 4 wheel coupled side tank engine, 4-4-2	First engine built May 1906
100	C	28855		Classification of peened piston rings	22 Apr 1931		List	
100	C	28866		Cross sections and end views	11 Apr 1894		4'3" 8 wheeled coal side tank engine	First engine built Sep 1881

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
100	C	28904		Diagram sheet of spring backs	No date		Parts	
100	C	28912		Proposed connection between side and bunker tanks	14 Aug 1934		5'6" 6 wheel coupled superheated tank engine	
100	C	28913		Diagram sheet of standard clips	6 Jan 1932		General parts list	
100	C	28916		Water gauge in tool boxes	20 May 1931		Tank engines	
100	C	28943		Alterations to position of injectors	3 Jul 1931		Cloughton class for engines "MM" tenders	
100	C	28945		Details of oil sieve for Wakefield's no. 1 mechanical lubricator (4 feeds)	No date		Part	
100	C	29009	9	Inlet valve retrieving spring	No date		Part	
100	C	29009		Arrangement and details of valve spindles	11 May 1932		Cloughton class with 5' 5" diameter boiler and Caprotti gear	
100	C	29104	B	Bed support for wood ferrule semi-automatic lathe	16 Feb 1933		Lathe part	
100	C	29104	A	Bed for wood ferrule semi-automatic lathe	2 Mar 1933		Lathe part	
100	C	29108		Elevation and plan	2 Feb 1903		50 ton bogie trolley	
100	C	29119		Elevation	1 Apr 1903		5'0" 6 wheel coupled 4 cylinder compound goods engine	No. 1400 portrayed
100	C	29119		General view	1 Apr 1903		5'0" 6 wheel coupled compound 4 cylinder goods engine	Paper copy
100	C	29120		General arrangement - sections	8 Jun 1904		7'0"4 wheel coupled compound passenger engine	
100	C	29122		General arrangement - sections	8 Jun 1904		7'0"4 wheel coupled compound passenger engine	
100	C	29123		General arrangement - sections	Jun 1891	11 Apr 1894	6'0" 4 wheel coupled passenger engine	
100	C	29124		General arrangement - sections	22 Oct 1891		7'0" 8 wheel compound passenger engine	

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
100	C	29127	General arrangement - sections	25 Oct 1892		4'3" 8 wheel coupled coal engine	
100	C	29130	General arrangement - sections	Sep 1901		4'3" 8 wheel coupled 4 cylinder compound coal engine	
100	C	29131	Elevation and plan	Sep 1901		4'3" 8 wheel coupled 4 cylinder compound coal engine	
100	C	29134	General arrangement - sections	Mar 1906		4'3" 8 wheel coupled compound coal engine, class D	
100	C	29135	Elevation and end views	22 Feb 1907		5'0" 6 wheel coupled 4 cylinder compound goods engine	Also paper copy in Crewe unnumbered series
100	C	29136	Elevation and plan	9 Jul 1903		5'0" 6 wheel coupled 4 cylinder compound goods engine	Also paper copy in Crewe unnumbered series
100	C	29141	Wood guard for wood ferrule semi-automatic lathe	17 Jun 1931		Part	
100	C	29145	Friction clutch and lever for wood ferrule semi-automatic lathe	16 Jul 1931		Part	
100	C	29149	Diagram of patch plate on inside of frame	No date		Various classes of engine	
101	C	29158	Detail of shafts on wood ferrule semi-automatic lathe	21 Jul 1931		Part	
101	C	29165	Spherical and copper ring joints for boiler mountings	23 Mar 1932		Boiler parts	
101	C	29187	Arrangement of wood ferrule semi-automatic lathe	4 Aug 1931		Part	
101	C	29236	Detail of 21" crab traverser wheels	26 Feb 1945		50-ton Arrol E.O. travelling cranes for Erecting Shop South	
101	C	29245	Detail of inlet valve	No date		Caprotti gear	
101	C	29252	Arrangement shewing fitting of "W19" spring to trailing wheels	No date	4 Nov 1943	G1 class	
101	C	29253	Standard unions	11 May 1932		Standard parts	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
101	C	29254		Solid reversing shaft and balance weights	7 Oct 1931		No.2 class passenger engine	
101	C	29264		Detail of exhaust valve	No date		Caprotti gear	
101	C	29265		Exhaust valve guide	No date		Caprotti gear	
101	C	29266		Detail of inlet valve guide	No date		Caprotti gear	
101	C	29295		50 foot engine turntable	22 Mar 1920		Turntable	
101	C	29300		Arrangement and details of Kylchap blast pipe in smokebox	7 Oct 1931		Claughton class with 5' 5" diameter boiler and Caprotti gear	
101	C	29350		Foot lever assembly for operating friction clutch on wood ferrule semi-automatic lathe	24 Oct 1931		Part	
101	C	29363		8" piston valve, liners, spindle and crosshead	26 Jan 1932	10 Jul 1942	Engines with 1 3/8" and 1 1/4" lap and 1 1/16" exhaust clearance	
101	C	29383		Brick arch	19 Jan 1931		Claughton class with 5'5" diameter Belpaire	
101	C	29385		Brick arch	19 Jan 1931		Standard compound engines	
101	C	29500		Wind plates for preventing down draught	23 Feb 1932		Claughton class with and without Caprotti valve gear	
101	C	29578		Bunker doors and tool box	25 Jan 1932		Claughton and Prince of Wales with "MM" tenders	
101	C	29608		Diagram sheet of axlebox steps	11 May 1932		Many classes of engine	
101	C	29678		Double-riveted firebox plates	28 Feb 1934		Prince of Wales class with Belpaire boiler	
101	C	29679		Seating block for whistle stand	28 Feb 1934		Prince of Wales class with Belpaire boiler and 19" goods engines	
102	C	29680		Foundation ring for Belpaire boilers	28 Feb 1934		Belpaire boilers on Prince of Wales, Experiment and 19" goods engines	To drawing 29678

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
102	C	29721		Radial truck details	25 Sep 1924		4'3" 4 wheel coupled shunting engine	
102	C	29723		Radial truck details	25 Sep 1924		4'3" 8 wheel coupled coal engines	
102	C	29723		Radial truck details	25 Sep 1924		4'3" 6 wheel coupled coal, saddle, and special tank engines	
102	C	29724		Radial truck details	25 Sep 1924		5'0" 6 wheel coupled goods engines with 18" cylinders, Special DX and 4'3" coal engines	
102	C	29725		Radial truck details	25 Sep 1924		5'0" 6 wheel coupled goods engines with 19" cylinders	
102	C	29726		Radial truck details	26 Sep 1924		4'6" 4 wheel coupled side tank engine	
102	C	29727		Radial truck details	25 Sep 1924		5'6" 6 wheel coupled side tank passenger engine with 18" cylinders	
102	C	29728		Radial truck details	25 Sep 1924		6'0" 4 coupled straight link passenger engine	
102	C	29729		Radial truck details	25 Sep 1924		Renown and Alfred the Great classes	
102	C	29730		Radial truck details	25 Sep 1924		5'6" 6 wheel coupled side tank passenger engine	
102	C	29731		Radial truck details	25 Sep 1924		6'0" 4 wheel coupled side tank passenger engine	
102	C	29732		Radial truck details	25 Sep 1924		Precursor class	
102	C	29733		Radial truck details	25 Sep 1924		Experiment and Prince of Wales classes	
102	C	29734		Radial truck details	25 Sep 1924		Cloughton class	
102	C	29735		Clearance above rail level with exception of bogies	No date		4-6-4 Baltic tank	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
102	C	29742		Food box	11 May 1932			Cloughton engines with "MM" tenders
102	C	29743		Hind drag box steel casting	No date			Rebuilt Cloughton class
102	C	29758		Double-riveted firebox plates	4 Oct 1933			G1 and G2 classes with Belpaire boilers
102	C	29759		Foundation ring - Belpaire boilers to drawing 29758	1 Feb 1934			G1 and G2 classes with Belpaire boilers
102	C	29760		Whistle stand seating	4 Oct 1933			G1 and G2 classes with Belpaire boilers
102	C	29827		Key to standard union sheet	11 May 1932			List of parts
102	C	29836		Plan shewing position of rainwater drains	16 Oct 1925			New erecting and machine shop at Crewe
102	C	29838		Diagram shewing crane clearances	23 Apr 1925			No.8 Erecting shop
102	C	29852		Joints for smokebox and firebox fittings	13 May 1932			Rebuilt Cloughton class with 5X boiler
102	C	29933		Blower connection for tube plate	No date			Western Division
102	C	29991		Arrangement of locking gear, carrier wheels etc.	17 Feb 1920			50-ft turntable
103	C	30333		Elevation, plan and end views	2 Aug 1898			Dundalk, Newry and Greenore Rly 5'0" 6 wheel coupled saddle tank with cyls 17" dia. x 24" stroke
103	C	30568		Tank arrangement	No date	28 Nov 1952		4000-gallon tender for 4-6-2 engine
103	C	30581		Tender frame	No date	26 Nov 1943		4000-gallon tender
103	C	30665		Tender axle	28 Nov 1933	10 Sep 1948		Standard fitting Standard fitting
103	C	30792		Arrangement of vacuum controlled regulator	8 Nov 1937			0-6-0 standard side tank engine ("Jinty")

<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
103	C	30914	Valve diagram	15 Dec 1933		2-8-0 superheated freight engine	
103	C	30931	Standard cast iron piston rod packing	4 Jan 1934		8 classes of engine	
147	C	30963	Firebox arrangement	22 Dec 1933	14 Nov 1956	LMS class 5 4-6-0	Gold tracing
103	C	30972	Profile shewing extreme throwovers on 6 chain curve	29 Dec 1933		2-8-0 superheated freight engine	
103	C	30990	Crank pins	11 Apr 1934	12 Feb 1959	2-8-0 superheated freight engine	
103	C	31004	Arrangement of smokebox with 3-row superheater elements	28 Nov 1934	25 Oct 1954	2-8-0 superheated freight engine, nos. 8000-8011	
103	C	31011	Shields for saw movement for wood ferrule semi-automatic lathes for "joiners' shop"	17 Jan 1934		Part	Original tracing
147	C	31024	Firebox arrangement	26 Jan 1934	19 Sep 1949	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing
103	C	31160	General arrangement of pony truck	18 May 1934	7 Dec 1960	2-8-0 superheated freight engine, nos. 8000-8011	
103	C	31285	Cab arrangement	25 Jul 1934	7 Dec 1960	2-8-0 superheated freight engine	
103	C	31304	Back plate and mountings	23 Jul 1937	14 Jan 1944	2-8-0 superheated freight engine, nos. 8000-8011	
103	C	31333	Internal pipe arrangement	11 Oct 1934	18 Aug 1936	2-8-0 superheated freight engine, nos. 8000-8011	
103	C	31467	Clothing arrangement	27 Nov 1934	5 Jun 1944	2-8-0 superheated freight engine, nos. 8000-8011	
103	C	31482	Pipe arrangement, elevation and plan	21 Dec 1934	23 Oct 1942	2-8-0 superheated freight engine, nos. 8000-8011	
103	C	31483	Pipe arrangement, end views	21 Dec 1934	20 May 1939	2-8-0 superheated freight engine, nos. 8000-8011	
148	C	31557	Boiler arrangement	30 Oct 1934	3 Feb 1953	Royal Scot no. 6170 - the first taper boiler Royal Scot, rebuild of h.p. loco "Fury"	



<b>Box</b>	<b>Prefix</b>	<b>Number Sub</b>	<b>Title</b>	<b>Earliest date</b>	<b>Latest date</b>	<b>Classes of Locomotive</b>	<b>Other information</b>
103	C	31652	Firebox arrangement	24 Jan 1935	19 Sep 1949	Royal Scot class with taper boiler, no. 6170	
103	C	31687	Arrangement of smokebox	23 Aug 1935	1 Mar 1940	Not stated but probably Royal Scot class with taper boiler, no. 6170	
103	C	31790	Alterations to frame	14 Mar 1935	23 Oct 1959	Royal Scot class with taper boiler, no. 6170	
103	C	31914	Engine wheel balancing, sheet no. 1	17 Oct 1934		2-8-0 freight engine, nos. 8000-8011	
104	C	32004	Arrangement of back plate and mountings	7 Nov 1935	11 Nov 1949	Royal Scot with taper boiler no. 6170	
104	C	32027	Part outside motion arrangement (front end)	17 Jun 1935	10 Nov 1939	Royal Scot with taper boiler no. 6170	
104	C	32028	Part inside motion arrangement (front end)	30 Sep 1935	10 Nov 1939	Royal Scot with taper boiler no. 6170	
104	C	32068	Cab arrangement	5 Sep 1935		Royal Scot with taper boiler no. 6170	
104	C	32089	Clothing arrangement	7 Oct 1935	5 Sep 1944	Royal Scot with taper boiler no. 6170	
104	C	32129	Boiler arrangement	19 Oct 1935	3 Feb 1953	2-8-0 superheated freight engine with sloping throat plate	Paper copy also in Crewe unnumbered series
147	C	32130	Firebox arrangement	2 Aug 1935	19 Sep 1949	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing
104	C	32154	Engine balancing sheet no. 2	17 Oct 1934		2-8-0 superheated freight engine, nos. 8000-8011	
104	C	32205	Elevation and plan	25 Mar 1894		6'0" 8 wheel compound passenger engine	
104	C	32247	Internal pipe arrangement	21 Jan 1936	22 Sep 1950	2 cylinder 4-6-0 with taper boiler and sloping throat	
104	C	32295	Pipe and rod arrangement, elevation and plan	16 Oct 1935	5 Apr 1954	Royal Scot with taper boiler no. 6170	

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
104	C	32296	Pipe and rod arrangement, end views	17 Oct 1935	23 Oct 1959	Royal Scot with taper boiler no. 6170	
104	C	32299	End views	25 Mar 1894		6'0" 8 wheel compound passenger engine	
104	C	32342	Elevation, plan and end views	24 Sep 1886		8 wheel side tank compound passenger engine	
104	C	32436	Smokebox arrangement	26 Mar 1936	25 Oct 1954	2-8-0 superheated freight engine with sloping throat plate	Paper copy also in Crewe unnumbered series
104	C	32439	Elevation and plan	9 Jul 1887		5'0" compound goods tank engine	
104	C	32444	Clothing arrangement	12 Feb 1936	23 May 1944	2-8-0 superheated freight engine with sloping throat plate	Paper copy also in Crewe unnumbered series
104	C	32454	Elevation and plan	21 Mar 1895		5'9" rebuilt Metropolitan side tank engine	
104	C	32456	Elevation	26 Jun 1894		7'0" 8 wheel compound passenger engine	
104	C	32481	Elevation and end views	May 1897		7'0" 4 wheels coupled 4 cylinder passenger engine	
148	C	32498	Frame arrangement	25 Feb 1936	7 Dec 1960	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing
147	C	32512	General arrangement of pony truck	1 Feb 1936	7 Dec 1960	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing
105	C	32522	Pipe and rod arrangement elevation and plan	20 Feb 1936	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	2487
105	C	32523	Pipe and rod arrangement end views	31 Mar 1936	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	Paper copy also in Crewe unnumbered series
105	C	32540	Backplate and mountings - taper boiler	25 Feb 1936	14 Jan 1944	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	Paper copy also in Crewe unnumbered series
147	C	32589	Cab arrangement	25 Feb 1936	15 Nov 1960	LMS class 5 4-6-0	Gold tracing

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
105	C	32592		Details of rocking levers and general arrangement of valve gear	23 Dec 1897		7'0" 4 wheels coupled compound passenger engine	
105	C	32594		Pipe and rod arrangement elevation and plan	20 Feb 1936	1 Oct 1956	2 cyl 4-6-0 MT taper boiler with sloping throat plate	paper drawing - poor quality
105	C	32595		Pipe and rod arrangement end views	6 Mar 1936	15 Nov 1960	2 cyl 4-6-0 MT with NS taper boiler with sloping throat plate	paper drawing
105	C	32612		Alterations to 4000 gallon tender for increased coal capacity	14 Jul 1936	12 Feb 1943	4000 gallon tender for 4-6-2 engines type 2 riveted	
105	C	32614		Details of central frame and bearing	15 Oct 1900		7'0" 4 coupled compound engine	
147	C	32668		Bogie arrangement	14 Apr 1936	7 Feb 1955	LMS class 5 4-6-0	Gold tracing
147	C	32686		Back plate and mountings - taper boiler	7 Apr 1936	12 Jan 1940	LMS class 5 4-6-0	Gold tracing
105	C	32705		Engine balancing sheet no. 1	16 Jan 1935		2 cyl 2-8-0 freight with taper boiler and sloping throat plate	
147	C	32706		Engine balancing sheet no. 2	16 Jan 1935		Standard 2-8-0 2 cylinder goods locomotives	Gold tracing
105	C	32718		Engine balancing sheet no. 1	23 Apr 1936		2 cyl 4-6-0 MT taper boiler with sloping throat plate	
147	C	32719		Engine balancing sheet no. 2	23 Apr 1936		LMS class 5 4-6-0 nos 5225 - 5451 built by Armstrong Whitworth and Co	Gold tracing
105	C	32725		Grease gun lubrication - shed chart (not including parts oiled daily by driver)	none		2 cyl 2-8-0 freight engine	Paper copy also in Crewe unnumbered series
105	C	32737		Diagram of Joy's valve gear	26 Feb 1909		Precursor class	
147	C	32740		Smokebox arrangement	27 May 1936	25 Oct 1954	LMS class 5 4-6-0	Gold tracing
147	C	32757		Elevation and plan	14 Jul 1936	8 Dec 1953	LMS class 5 4-6-0	Gold tracing
147	C	32758		Pipe arrangement - end views	14 Jul 1936	14 Aug 1952	LMS class 5 4-6-0	Gold tracing
105	C	32785		connecting rods	none		not stated	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
105	C	32861		Pipe and rod arrangement end views	7 Aug 1937	7 Jan 1960	2 cyl 2-8-0 superheated freight engine	
106	C	33059		Tank capacity diagram	14 Nov 1936		Standard 4000 gallon tender	
147	C	33097		Boiler arrangement	7 Jan 1937	14 Nov 1956	LMS class 5 4-6-0	Gold tracing
106	C	33109		Arrangement of streamlining below platform	23 Apr 1937	22 Dec 1943	4000 gallon tender type 3 for 4-6-2 passenger engine	
106	C	33118		No title - elevation and end views	2 Feb 1937	18 Jan 1945	2 cyl 4-6-0 MT engine with dome added	Very 'thin' ink quality
147	C	33302		Arrangement of smokebox with 3-row superheater elements	3 Aug 1937	25 Oct 1954	Standard 2-8-0 2 cylinder goods locomotives, nos. 8000-8011	Gold tracing
106	C	33426		General arrangement 4000 gallons tender (streamlined)	15 Sep 1937		4000 gallon tender type 3 for 4-6-2 passenger engine	paper drawing - 2 more copies in Crewe unnumbered series
148	C	33435		Frame arrangement	15 Oct 1937	15 Nov 1960	LMS class 5 4-6-0	Gold tracing
148	C	33448		Arrangement of welded tank	8 Jan 1938	Mar 1961	4000 gallon tender with increased coal capacity	Gold tracing
106	C	33551		Smokebox arrangement	12 Apr 1938	25 Oct 1954	2 cyl 4-6-0 MT engines	
106	C	33607		Motion arrangement	8 Aug 1938	28 Dec 1939	2-8-0 taper boiler freight engine	Paper copy also in Crewe unnumbered series
106	C	33621		Arrangement of lubricating, cylinder cock gear and steam sanding	12 Apr 1938	9 Mar 1954	2 cyl 4-6-0 MT engines	
106	C	33690		Balance weights. Wheel balancing machine	10 May 1938	10 May 1938	2 cyl 4-6-0 taper boiler with sloping throat plate	
148	C	33752		Smokebox arrangement	7 Jul 1938	25 Oct 1954	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing
106	C	33808		Pipe and rod arrangement elevation and plan	29 Aug 1938	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	
106	C	33809		Pipe and rod arrangement end views	20 Feb 1936	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	
148	C	33810		Frame arrangement	8 Sep 1938	15 Nov 1960	LMS class 5 4-6-0	Gold tracing

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
148	C	33815		Pipe and rod arrangement, elevation and plan	16 May 1938	15 Nov 1960	LMS class 5 4-6-0	Gold tracing
106	C	33849		Engine balancing sheet no. 1	xx Feb 1939		2 cyl 4-6-0 MT taper boiler with sloping throat plate	
106	C	33850		Engine balancing sheet no. 2	xx Feb 1939		2 cyl 4-6-0 MT taper boiler with sloping throat plate	
106	C	33885		Double blast pipe	22 Mar 1939	26 Oct 1954	4-6-2 passenger engine	
148	C	33889		Firebox arrangement	30 Jul 1935	14 Nov 1956	LMS class 5 4-6-0	Gold tracing
148	C	33895		Firebox arrangement	2 Aug 1935	23 Mar 1955	Standard 2-8-0 2 cylinder goods locomotives	Gold tracing
106	C	33896		Firebox arrangement	20 Nov 1935	23 Mar 1955	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	
107	C	34132		Double blast pipe	19 Aug 1939	27 May 1942	Royal Scot with taper boiler	
107	C	34154		Smokebox arrangement	24 Oct 1939	25 Oct 1954	Royal Scot with taper boiler	
107	C	34195		Engine balancing sheet no. 1	12 Feb 1943		2 cyl 4-6-0 engines 40% recip. wt. balanced	
107	C	34196		Engine balancing sheet no. 2	13 Aug 1943		2 cyl 4-6-0 engines 40% recip. wt. balanced	
107	C	34222		General arrangement	xx Jan 1940		4000 gallon tender - coal capacity 9 tons	paper drawing - torn
107	C	34263		Motion arrangement	20 Jun 1940	15 Dec 1941	2 cyl 2-8-0 freight engine with taper boiler	
107	C	34285		Motion arrangement	none		2 cyl 2-8-0 freight engine with taper boiler	
107	C	34422		Pipe and rod arrangement elevation and plan	20 Feb 1936	7 Dec 1960	2 cyl 2-8-0 freight engine with taper boiler and sloping throat plate	
109	C	34630		Trailing sandpipe and stay	2 Feb 1946		G2 class	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
107	C	34775		Boiler arrangement	1 Nov 1934	3 Feb 1953	2 class nickel steel boiler for engine 6170	
107	C	34776		Firebox arrangement	14 Mar 1935	23 Mar 1955	Royal Scot with taper boiler	
107	C	34874		Pipe and rod arrangement end views	20 Feb 1936	7 Dec 1060	2 cyl 2-8-0 freight engine with taper boiler and sloping throat plate	
107	C	34908		Cross sections and end views	15 May 1989		5'0" 6 wheels coupled side tank engine	
108	C	35143		Motion arrangement	3 Dec 1941	24 Dec 1942	2 cyl 2-8-0 freight engine with taper boiler	Another copy in Crewe unnumbered series
108	C	35174		Capacity and type number plate - tender	12 Nov 1941	21 Jan 1947	Many types of tender	
108	C	35292		Firebox	10 Apr 1924		6'0" 4 coupled passenger engine 2-4-0 type (straight link)	
108	C	35369		Frame arrangement	20 Jun 1942	7 Dec 1960	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	Also in Crewe unnumbered series
108	C	35385		Pipe and rod arrangement end views	20 Feb 1936	19 Nov 1942	2 cyl 2-8-0 freight with taper boiler and sloping throat plate	
108	C	35534		Alterations to frame etc. when cross stays to drawings C35502 and C35503 are fitted	30 Nov 1942	31 Aug 1944	2 cyl 4-6-0 engines	
108	C	35567		General arrangement of Joy's valve motion - low pressure motion	11 May 1889		7'0" compound passenger engine	
108	C	35715		Simple elevation and section	xx Mar 1864		4 wheels coupled passenger engine	Copy of original drawing
108	C	35742		Elevation and plan	14 Apr 1890		7'0" compound passenger engine	
108	C	35744		Appears to be the left hand end of a much larger drawing cut off	none		no information	
108	C	35746		Elevation and sections	15 Aug 1893		4'3" 8 wheels coupled compound coal engine	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
109	C	36297		Bearing spring for pony truck	9 Feb 1945	10 Jul 1956	WD?	Traced from North British Locomotive Co. Ltd., Glasgow, print
109	C	36298		Bearing spring coupled wheels	9 Feb 1945	11 Jul 1956	WD?	Traced from North British Locomotive Co. Ltd., Glasgow, print
109	C	36420		Steam cock for sanding	12 Mar 1946		G2 class	
109	C	36421		Miscellaneous details	14 Mar 1946		G2 class	
109	C	36422		Trailing sandbox	23 Jan 1946		G2 class	
109	C	36423		Sandbox extension and lid (trailing sandbox)	23 Jan 1946		G2 class	
109	C	36424		Casing over sandbox extension pipe	4 Mar 1946		G2 class	
109	C	36425		Steam sanding - alteration to panel	25 Feb 1946		G2 class	
109	C	36427		Arrangement of steam sanding	6 Jun 1946		G2 class	
109	C	36428		Alteration to frame and covering plates	25 Feb 1946		G2 class	
109	C	36429		Arrangement of carriage heating apparatus	23 Feb 1946		G2 and G2A classes (ex LNW)	
109	C	36434		Details of clips for carriage heating apparatus	23 Jan 1946		G2 and G2A classes (ex LNW)	
109	C	36742		Table plate details for self-cleaning smokebox	none		General	
109	C	36745		Screen details for self-cleaning smokebox	none		General	
109	C	36758		Deflector plate details for self-cleaning smokebox	none		General	
109	C	36774		Arrangement of self-cleaning smokebox details	none		General	
110	C	37045		Snowplough - gusset for buffer beam	23 Mar 1948	22 Nov 1948	5'0" 18" goods ex-LNWR	
110	C	37046		Bracket	22 Nov 1948	30 Dec 1948	5'0" 18" goods ex-LNWR (2 engines)	
110	C	37047		Details for fitting of snow plough	29 Nov 1948		5'0" 18" goods ex-LNWR (2 engines)	Pencil drawing on tracing paper

Box	Prefix	Number Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
110	C	37049	Snow plough - pillar for side screen	26 Jan 1948		5'0" 18" goods ex-LNWR	Pencil drawing on tracing paper
110	C	37053	Tarpaulin sheets and details	2 Dec 1948		5'0" 18" goods ex-LNWR (2 engines)	
110	C	37058	Arrangement of snow plough	30 Dec 1948	30 Dec 1948	5'0" 18" goods ex-LNWR	
110	C	37062	Frame insert	6 Jan 1949	7 Apr 1949	3 cyl 4-6-0 engines	
110	C	37063	Frame insert	6 Jan 1949	6 Apr 1949	2 cyl 2-8-0 freight engine nos. 4800--48011	
110	C	37064	Frame insert	6 Jan 1949		4'3" 8 coupled coal engine (superheated) G2 class	
110	C	37065	Frame insert	6 Jan 1949		4'3" 8 coupled coal engine (superheated) G1 class	
110	C	37066	Frame insert	6 Jan 1949	7 Apr 1949	2 cyl 4-6-0 MT engine nos. 45000-45461	
110	C	37068	Frame insert	6 Jan 1949	8 Apr 1949	2 cyl 2-8-0 freight engines	
110	C	37077	Modification to front tender covering to include tool box	6 Jan 1949		2500 gallon ex-LNWR tenders - 2 made	Alternative date 6 Jan 1948
110	C	37093	Table of values of A in inches, D in minutes, crank pin settings	none		General	
110	C	37254	Ashpan and grate arrangement	no date	10 Sep 1959	Not stated	Original nos. X-884 and L-943
110	C	37255	Sand ejector	29 Jul 1948		Class 07	LNER original no. X-1019, supersedes ejector on 42-67
110	C	37256	Alteration to fire iron carrier	6 Oct 1948		Class 07	LNER original no. Z-266, supersedes 42-747 and Z-265
110	C	37257	Handbrake standard shield to prevent ingress of coal	29 Oct 1945		MOS 2-10-0 and 2-8-0	LNER original no. Z-186
110	C	37258	Gauge carrier	13 Nov 1942		Not stated - North British Locomotive Co. Ltd., Glasgow	Original no. 42-948
110	C	37259	Metallic piston rod packing	29 Jun 1943		2-8-0 WD classes 06 and 07	Original no. C31039



Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
110	C	37260		Pipe carriers and clips	6 Mar 1950		Not stated - North British Locomotive Co. Ltd., Glasgow	Original no. 42-881
110	C	37261		Arrangement of boiler	12 Apr 1950	21 Mar 1960	WD 2-8-0 built 1950	CME Loco drawing office Doncaster - original no. N-1227
110	C	37262		Arrangement of firebox	11 Apr 1950	21 Mar 1960	WD 2-8-0 built 1950	CME Loco drawing office Doncaster - original no. N-1228
110	C	37263		Elevation	8 May 1890		7'0" compound passenger engine 3103 "Jeanie Deans"	
111	C	37332		Diagrams of boilers	8 Jul 1949		Class G1 Belpaire type and 5'0" 6 coupled goods engine 18" cylinders Belpaire type	
111	C	37348		Arrangement of no. 6 snowplough	2 Sep 1949		Class 8 WD 2-8-0 engines fitted with no. 6 snowplough	
111	C	37350		Arrangement of rear tender footsteps 3000 gallon tender	12 Oct 1949		G2 and G2A classes	
111	C	37354		Details for fitting no. 6 snowplough	2 Sep 1949		Class 8 WD 2-8-0 engines fitted with no. 6 snowplough	
111	C	37358		Lifeguard	7 Sep 1949		Class 8 WD 2-8-0 engines fitted with no. 6 snowplough	
111	C	37362		Rear tender footstep 3000 gallon tender	12 Oct 1949		G2 and G2A classes	
111	C	37375		Modification to rotary bunker showing end plate welded in position	21 Oct 1949		Garratt engines	
111	C	37395		Modification to self-cleaning smokebox arrangement - conversion of double to single blast pipe	7 Dec 1945		2 cyl 4-6-0 class 5	Pencil drawing on tracing paper
111	C	37400		Copper tubeplate	11 Jan 1950		WD 2-8-0 Austerity loco	
111	C	37415		Forging for piston	20 Jan 1950	29 Sep 1961	BR classes 5 4-6-0, 6 and 7 4-6-2	
111	C	37471		Frame inserts	8 May 1950		2 cyl 4-6-0 MT engine nos. 45000-45451	

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
111	C	37474		Frame inserts	11 May 1950	3 Apr 1952	2 cyl 4-6-0 MT engines	
111	C	37488		Firehole protection plate	29 Aug 1950		No class specified	
111	C	37511		Coupled axlebox keep filler pipe	6 Sep 1950		BR 4-6-2 class 7 - 43 engines: 6203-6212 and 6220-6252	
111	C	37523		Temporary spring links for coupled wheels	2 Jan 1951		4-6-2 type 6 and 7 BR standard loco	
111	C	37525		Temporary spring links for coupled wheels	26 Jan 1951		4-6-2 passenger engines nos. 46256 and 46257	These temporary links to be fitted for weighing purposes only. Not to leave works under any circumstances
111	C	37526		Temporary spring links for pony truck wheels	2 Jan 1951		4-6-2 passenger engines nos. 46256 and 46257	These temporary links to be fitted for weighing purposes only. Not to leave works under any circumstances
111	C	37538		Temporary spring links for bogie wheels	2 Jan 1951		4-6-2 type 6 and 7 BR standard loco	
111	C	37544		Temporary spring links for pony truck wheels	25 Jan 1951		4-6-2 type 6 and 4-6-2 type 7 classes	
112	C	38016		Simple elevation and end views	5 Nov 1953		1'6" gauge tramway locomotive "Pet" - 1865	Paper copy of drawing in Crewe Unnumbered series
112	C	38021		Alteration to back dragbox (engine)	3 Dec 1951	6 Feb 1957	Class 07 WD 2-8-0 Austerity	Doncaster drawing no. D-59
112	C	38023		Alteration to back dragbox engine	10 Feb 1956	6 Feb 1957	Class 8 WD 2-8-0	Drawing E-61 from BE ER and NER Doncaster works
112	C	38024		Alternative method of erecting dragbox to suit facilities at Crewe	20 May 1952	15 Nov 1956	Class 07 WD 2-8-0 Austerity	Doncaster drawing no. Z-282
112	C	38025		Arrangement of boiler	12 Apr 1950		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. N-1227
112	C	38026		Arrangement of BR clackbox as fitted to WD 2-8-0	7 Sep 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-N-1307
112	C	38027		Arrangement and details of casing for injector delivery pipe	12 Aug 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-G-254
112	C	38030		Coupling rod	22 Oct 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-489

Box	Prefix	Number	Sub	Title	Earliest date	Latest date	Classes of Locomotive	Other information
112	C	38031		Intermediate coupling rod	2 Oct 1953	24 Jul 1958	Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-487
112	C	38032		Trailing coupling rod	12 Oct 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-486
112	C	38033		Leading coupling rod	12 Oct 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-485
112	C	38034		Connecting rod bushes and oiling washer	9 Oct 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-488
112	C	38035		Coupling rod bushes and oiling washers	30 Jul 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-482
112	C	38036		Coupling rod details	27 Aug 1953		Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-S-484
112	C	38066		Piston crosshead	15 Feb 1954	18 Oct 1955	Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-L-194
112	C	38070		Alterations to front dragbox	28 Nov 1951	15 Nov 1956	Class 07 WD 2-8-0 Austerity	Doncaster drawing no. DN-Z-279
112	C	38071		Water gauge lamp brackets	3 May 1954		WD 2-8-0 Austerity	
112	C	38173		Arrangement and details of reversing gear catch	none	18 Aug 1958	WD 2-8-0 Austerity nos. 91010-90731	
112	C	38188		Piston crosshead slideblock	9 Jun 1955		WD 2-8-0 and 2-10-0	
112	C	38325		Alteration to ashpan	Jun 1947	Jun 1953	M of S 2-8-0 Austerity locomotive	Attachment to GWR drawing 42-517
112	C	38380		Coupled axlebox guides	8 Oct 1943	11 Oct 1948	Not stated - North British Locomotive Co. Ltd., Glasgow	Original drawing no. L-943
112	C	38517		Combined gauge and ATC cab control unit carrier	28 Aug 1958		LMS class 5 4-6-0	
112	C	38521		Arrangement and details of wood platform	2 Jun 1958 or 9		LMS class 5 4-6-0	Poor quality
112	C	38534		Battery box bracket and fireman's seat	8 Aug 1958		LMS class 5 4-6-0	
112	C	38591		Arrangement and details of carrier for internal pipes when fitted with boiler to D.14210	8 Aug 1958		Ex LMS 2 cyl and 3 cyl 2-6-4 tank engines	