

Glasgow Report No 6485

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No. 1177

(Received in London Office)

TESTS OF BOILER STEEL.

Tests of 140 Steel Plates manufactured by Messrs. J. & W. Beardmore of Parkhead, Glasgow for Boiler No. 106 to be constructed by Messrs. J. & F. Thomson of Glasgow for Messrs. Druce & Co's S.P. No. 140

Date first visit 20/8/82 last visit 24/8/82 No. of Visits 3

The Plates specified in the accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to 14 samples as set forth below, and the temper and bending tests to a shearing from each plate, with satisfactory results.

When a second test is applied, the result should be recorded immediately below the record of the original test. The number of plates or bars included in a rejection must be clearly stated.

No.	Purpose.	Charge Mark	No. of plates or bars in same charge	Mark on plate and test piece.	Dimensions.			Ultimate Stress.		Exten. in 8 ins.	Remarks.
					Thickn.	Brdth.	Area.	Total.	Sq. Inch.		
					Ins.	Ins.	Ins.	Tons.	Tons.		
	Centre back tube			1748	.7	1.25	.875	23.4	26.7	26.5	
	Bottom fire box			1759	.64	1.25	.8	22.5	28.1	26.	
	Outer shell			1795	.97	1.04	1.008	28.85	28.6	25	
	" " Straps			1743	.7	1.05	.735	21.44	29.1	26	
	Bottom fire box			1801	.64	1.25	.8	22.24	27.8	26	
	Superheater shells			1904	.54	1.44	.777	22.6	29.	23	
	" ends			1940	.7	1.27	.889	24.91	28.	25	
	Wing back tube plate			1831	.72	1.3	.936	26.8	28.6	26	
	Inner shell			1825	.97	1.01	.979	27.46	28.	27.5	
	" "			1857	.92	1.02	.938	26.64	28.3	24	
	Superheater shell			1862	.5	1.43	.74	20.15	27.2	26	
	Top front			1881	.82	1.02	.826	23.2	27.7	24	
	Inner shell			1896	.92	1.03	.947	26.69	28.1	22	
	Wing front tube plate			1755	.73	1.27	.927	26.45	28.5	24	

S.S.
7/9/83.

Fee £ : :
Expenses £ : :
£ : :

To be paid by Messrs. J. & W. Beardmore Glasgow 6/9/83



GLS201-0012

J. S. Thompson.
106 1/2 miles



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Foundation