

No. 1444

Gls:

TESTS OF BOILER STEEL.

Tests of ~~102~~ Steel Plates manufactured by Messrs. J & W. Beardmore of Parkhead, Glasgow for Boiler No. 219 to be constructed by Messrs. J & G. Thomson of Glasgow for Messrs. J & G. Thomson's S.P. No. 199

Date first visit 2/11/83 last visit 7/11/83 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 11 samples as set forth below, and the temper and bending tests to a shearing from each plate, with satisfactory results

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.		
	$13.9 \times 75 \times \frac{5}{8}$	F146		1607	.62	1.25	.775	21.4	27.6	28	
	$13.7 \frac{1}{2} \times 39 \times \frac{13}{16}$	A192		1604	.83	1.01	.838	24.09	28.7	26	
	$9.9 \times 51 \frac{1}{2} \times \frac{3}{8}$	B302		1687	.38	1.49	.566	16.1	28.4	32	
	$13.6 \frac{1}{2} \times 65 \frac{1}{2} \times \frac{27}{32}$	B262		1070	.85	1.24	1.054	30.14	28.5	33	
	$5.3 \times 55 \times \frac{5}{8}$	A325		1612	.6	1.26	.756	21.4	27.9	23	
	$9.3 \times 62 \times \frac{1}{2}$	K318		1649	.52	1.17	.608	17	27.9	28	
	$13.6 \times 39 \times \frac{13}{16}$	B268		1648	.82	1.13	.926	26.2	28.2	34	
	$6.1 \times 88 \times \frac{1}{2}$	A327		1582	.5	1.4	.7	19.84	28.3	30.5	
	$2.6 \frac{1}{2} \times 14 \times \frac{1}{2}$	B332		2596	.47	1.44	.676	18.51	27.3	26	
	$7.9 \times 38 \frac{1}{2} \times \frac{1}{2}$	F192		1605	.51	1.42	.724	20.15	27.8	28	
	$13.6 \times 39 \times \frac{13}{16}$	F306		1895	.85	1.26	1.071	30.6	28.5	35	

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.

Fee £ : :

Expenses £ : :

£ : :

To be paid by

Messrs. J & W. Beardmore

Glasgow 13/11/83

Surveyor, Lloyd's Register,

Wm. Andrews

J.B. Thomson
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