

No. 95

(Received in London Office, 27.9.81)

## TESTS OF BOILER STEEL.

Tests of 111 Steel Plate manufactured by Messrs J & W Beardmore of Parkhead for Boiler No. 1151 to be constructed by Messrs Tho. Clark & Co of Newcastle on Tyne for the steam vessel N<sup>o</sup> 18 building by Messrs John Blumer & Co. Sunderland.

Date first visit 19<sup>th</sup> Aug<sup>r</sup> 1881 last visit 16<sup>th</sup> Sept<sup>r</sup> 1881 No. of Visits 1

The Steel Plate specified in the accompanying copy of Advice Notes were rolled from 65 charges. The tensile test has been applied to 14 samples as set forth below, and the temper and bending tests to samples representative of every plate.

All satisfactory.

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.	%	
1	8' 8 1/2" x 32 1/2" x 1/16"	B225	1	340	.67	1.22	.817	22.6	27.6	25.	
2	5-11 x 66 x 3/4	B183	1	328	.75	1.28	.96	27.1	28.2	26.	
3	72" dia 15/16	K195	1	344	.94	1.18	1.11	30.32	27.3	27.	
4	9-6 x 38 3/4 x 1/16"	B222	1	311	.69	1.25	.862	23.98	27.8	26.	
5	18' 2 3/16 x 44 3/4 x 1/16"	A159	1	300	.7	1.32	.924	25.8	27.9	28.5	
6	9-0 1/2 x 42 1/4 x 1/2	F219	1	396	.52	1.53	.795	21.74	27.3	28.	
7	2-3 1/2 x 24 1/2 x 7/8	F181	1	337	.85	1.18	1.	27.7	27.7	24.	
8	9-10 x 51 1/2 x 1/2	F168	2	584	.55	1.54	.847	23.76	28.	28.	
9	8-4 1/2 x 73 x 1/2	B217	1	553	.5	1.26	.63	17.	27.	21.	
10	7-7 x 5 x 3/8	F251	16	695	.39	1.26	.491	13.63	27.7	27.	
11	8-11 3/4 x 42 1/4 x 1/2	F223	1	153	.53	1.26	.667	17.26	25.87	27.	*paued
12	2-1 1/2 x 22 1/2 x 3/8	K249	3	154	.63	1.26	.787	21.45	27.2	27.	
13	7-5 1/4 x 50 1/4 x 1/16	B238	1	10	.69	1.14	.786	20.6	26.2	28.1	
14	3-0 1/4 x 18 1/4 x 1/2	B64	4	356	.53	1.42	.752	20.01	26.6	26.	

Jm.  
28/9/81

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by Messrs J & W Beardmore Glasgow

Steel tests

Campbell Notebook P 29

" 1102 beam "

" Romeo "

For the head by

Manufacture

29-8-81



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