

No. 837.

(Received in London Office,

RECEIVED 10 MAY, 88.

## TESTS OF BOILER STEEL.

Tests of  $\frac{7}{16}$  Steel Plates manufactured by Messrs J. & W. Beardmore of Parkhead for Boiler No. 206/7 to be constructed by Messrs W. B. Thompson of Dundee for their S.S. No. 53/4.

Date first visit March 9<sup>th</sup> 1883 last visit April 24<sup>th</sup> 1883 No. of Visits 7.

The  $\frac{7}{16}$  Plates specified in the accompanying copy of Advice Notes were rolled from 68 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.	%	
1	12.0 x 54 $\frac{1}{2}$ x $\frac{9}{16}$	A65	2	411	.53	1.53	.841	23.65	28.1	30.	
2	8.6 x 62 $\frac{1}{2}$ x $\frac{16}{16}$	K12	1	431	.58	1.3	.754	22.07	29.2	27.	
3	12.4 x 50 $\frac{1}{2}$ x $\frac{9}{16}$	A60	1	494	.6	1.5	.90	25.9	28.7	25.	
4	16.1 x 48 $\frac{1}{2}$ x 1	K314	2	680	.99	1.01	.999	28.37	28.4	22.	
5	13.2 x 33 $\frac{1}{2}$ x $\frac{9}{16}$	A14	1	611	.53	1.58	.869	24.23	27.8	23.	
6	52 $\frac{1}{2}$ diam x $\frac{13}{16}$	K67	1	660	.82	1.18	.967	26.8	27.7	25.	
7	16.1 x 48 $\frac{1}{2}$ x 1	D361	1	374	1.0	1.01	1.01	28.74	28.4	23.	
8	16.1 x 48 $\frac{1}{2}$ x 1	A72	2	72	.99	1.01	.999	27.92	27.95	22.	
9	11.6 x 29 x $\frac{9}{16}$	B29	1	69	.55	1.44	.792	22.61	28.5	21.	
10	7.9 x 70 x $\frac{9}{16}$	F88	1	1181	.72	1.24	.892	25.85	28.	29.	
11	15.11 x 48 $\frac{1}{2}$ x 1	A93	1	1694	.98	1.	.98	28.85	29.4	20.	

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 The Steel Manufacturers.

Surveyor, Lloyd's Register, 9.5.83

Glasgow.

D.S.  
11/5/83

DUN109-00413



W. B. Thompson  
Nos 53 & 54

S.S. "Jasper" &  
"Ruby"

[18/6/81] 00052



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