

TESTS OF BOILER STEEL.

Tests of 71 Steel plates manufactured by W<sup>m</sup> D. Colville of Motherwell for Boiler No. 391 to be constructed by Messrs R. Napier & Sons of Glasgow for S.S. No. 391 building by same firm.

Date first visit 15<sup>th</sup> July - 1883 last visit 17<sup>th</sup> August 1883 No. of Visits 3.

The steel plates specified in the accompanying copy of Advice Notes were rolled from 17 charges. The tensile test has been applied to 8 samples as set forth below, and the temper and bending tests to a shearing taken from each of the plates advised, all of which proved 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. Dimensions.	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.	4.6 x 36 x $\frac{7}{16}$	Q113.	2	765.	.56	1.64	.918	25.0	27.2	29.0	
2.	4.1 $\frac{3}{4}$ x 20 $\frac{1}{2}$ x 1 $\frac{3}{32}$	B3764	8	1772	1.03	1.494	1.538	43.95	28.5	28.0	
3.	" " "	A12	12	1799	1.06	1.41	1.494	44.32	29.6	25.0	
4.	6.6 x 42 x $\frac{1}{2}$	Q75.	1	1980	.514	1.63	.837	23.81	28.4	29.0	
5.	9.3 x 42 x $\frac{1}{2}$	Q.118	5	2154	.48	1.54	.739	21.6	29.2	20.0	
6	7.8 $\frac{3}{4}$ x 48 x 1 $\frac{1}{8}$ x $\frac{7}{8}$	B883	1	1245.	.854	1.814	1.559	42.47	27.2	26.0	
7	22.3 $\frac{1}{2}$ x 49 $\frac{3}{4}$ x 1 $\frac{3}{32}$	B880	1	884	1.14	1.33	1.516	43.83	28.9	24.0	
8	" " "	B884	7	1246	1.134	1.5	1.701	47.11	27.6	26.0	

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by W<sup>m</sup> D. Colville.

C. Burney  
Surveyor, Lloyd's Register,  
28/8/83.  
Glasgow.