

No. 4186

(Received at London Office,

# TESTS OF BOILER STEEL.

Tests of 38 Steel Plates manufactured by Messrs D. Colville & Sons of Motherwell for Boiler No. 344.5 to be constructed by Messrs W. King & Co of Glasgow for Messrs Workman Clark & Co's S.S. No. 55456

Date first visit March 12<sup>th</sup> 1888 last visit April 9<sup>th</sup> 1888 No. of visits

The specified in the accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to 10 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 plate or bars in same charge	Mark on plate and test piece.	Dimensions.			Ultimate Stress.		Exten. in 8 ins	Remarks.
					Thickn	Brlth.	Area.	Total	Sq. Inch		
					Ins.	Ins.	Ins.	T ns.	Tons.	%	
1	Side of Wing Comb. Ch.	M400		1583	.57	1.97	1.122	30.86	27.5	25.5	
2	Top of Centre " "	N288		1473	.73	1.79	1.306	40.80	31.2	25.0	Rejected 2 plates
3	Doubling Plate	H369		1525	.68	1.48	1.006	33.87	33.6	19.0	" 4 "
4	Front Tube Plate	H621		6663	.73	1.20	.876	24.68	28.1	18.0	} " 1 "
					.72	1.23	.885	26.70	30.1	18.0	
5	Doubling Plates	J288		6737	.68	1.77	1.263	36.64	30.4	21.5	} " 5 "
					.68	1.36	.924	29.45	31.8	23.0	
6	Back Tube Plate Side	J287		6733	.80	1.32	1.056	30.90	29.0	22.0	
7	Doubl. Plate for Tube Plate	L408		6739	.68	1.32	.897	26.00	28.9	24.0	
8	Top of Side & Centre Comb. Ch.	M433		6859	.75	1.85	1.387	41.62	30.0	23.5	
9	Front Tube Plate	H622		1156	.74	1.88	1.391	38.36	27.5	26.0	
10	Doubling Plates	L411		831	.66	1.88	1.240	37.30	30.0	23.5	

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by

A. M. Dove.

Surveyor, Lloyd's Register.

Glasgow  
2.4.88