

# TESTS OF BOILER STEEL.

Tests of 121 Steel plates manufactured by Mr. D. Colville of Motherwell for Boiler No. 105 to be constructed by The Barrow Engine Co. of Barrow for

Date first visit Oct. 10/82 last visit Nov. 28/82 No. of Visits 5

The Steel plates specified in the accompanying copy of Advice Notes were rolled from 23 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 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.	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	24.10 <sup>3</sup> / <sub>8</sub> x 44 <sup>1</sup> / <sub>2</sub> x <sup>15</sup> / <sub>16</sub>	F42	2	1145	.96	1.184	1.136	32.96	29	26.8	
2	6.1 <sup>1</sup> / <sub>2</sub> x 41 x <sup>1</sup> / <sub>2</sub>	A797	9	2035	.488	1.55	.456	20.37	26.9	25	
3	6.0 x 45 x <sup>3</sup> / <sub>4</sub>	D541	28	2326	.42	1.665	1.199	32.98	27.5	25	
4	24.10 <sup>3</sup> / <sub>8</sub> x 44 <sup>1</sup> / <sub>2</sub> x <sup>15</sup> / <sub>16</sub>	F110	2	2351	.804	1.47	1.314	39.5	30.	24.5	
5	10.4 x 10 <sup>1</sup> / <sub>2</sub> x <sup>1</sup> / <sub>2</sub>	D532	5	2406	.49	1.038	.508	14.04	24.6	25	
6	8.3 x 41 x <sup>1</sup> / <sub>2</sub>	D537	2	2477	.417	1.5	.625	17.43	28.3	25	
7	6.10 <sup>1</sup> / <sub>2</sub> x 49 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>4</sub>	D546	1	2859	.748	1.475	1.103	37.37	28.4	29	
8	5.9 x 43 x 65 x <sup>3</sup> / <sub>4</sub>	F236	15	3143	.718	1.643	1.18	34.16	28.9	25.7	
9	5.6 x 51 x <sup>3</sup> / <sub>4</sub>	F237	9	3281	.73	1.663	1.214	35.88	29.5	24	
10	3.1 x 16 <sup>1</sup> / <sub>8</sub> x <sup>1</sup> / <sub>2</sub>	F237	9	3320	.68	1.49	1.013	29.42	29	23.7	
11	6.6 x 41 x <sup>1</sup> / <sub>2</sub>	C537	4	3409	.422	1.812	.764	20.56	26.8	29	
12	24.10 <sup>3</sup> / <sub>8</sub> x 44 <sup>1</sup> / <sub>2</sub> x <sup>15</sup> / <sub>16</sub>	F234	6	3538	.945	1.512	1.428	38.59	27.	25.6	
13	24.7 <sup>1</sup> / <sub>2</sub> x 44 <sup>1</sup> / <sub>2</sub> x <sup>15</sup> / <sub>16</sub>	F235	3	4070	.92	1.51	1.39	36.18	26	30.	
14	6.0 x 45 x <sup>3</sup> / <sub>4</sub>	F255	2	2480	.74	1.29	.954	26.38	27.6	24.5	

D.G.  
5/12/82

Fee ..... £ : :

Expenses £ : :

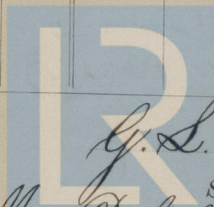
£ : :

To be paid by

Mr. D. Colville

Surveyor, Lloyd's Register,

Glasgow



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2/12/82