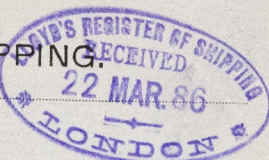


No. 3435.

(Received at London Office,



## TESTS OF BOILER STEEL.

Tests of 34 Steel plates manufactured by Clydesdale Iron & Steel Co. of Mossend  
for Boiler No. 187 to be constructed by D. J. Dunlop & Co. of Fort Glasgow  
for No. 187 building by D. J. Dunlop & Co.

Date first visit 25<sup>th</sup> Feb last visit 12<sup>th</sup> March 1886 No. of visits 5

The plates specified in the accompanying copy of Advice Notes were rolled from  
charges. The tensile test has been applied to 11 samples as set forth below,  
and the temper and bending tests to samples representative of each  
plate advised all of which proved satisfactory.

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	8-0 x 42 x 3/8 x 1/2	D 578		4626	.53	1.25	.662	19.4	29.3	26	-
2	12-4 1/2 x 60 1/2 x 1/2	B 436		4462	1.1	1.25	1.375	41.2	29.9	22	✓
3	5-0 x 29 x 1/2	B 440		4664	.56	1.28	.716	19.9	27.7	26	✓
4	2-6 x 21 x 3/4	A 100		4944	.75	1.26	.945	24.75	26.1	27	✓
5	12-2 x 60 1/2 x 1/2	D 527		4945	1.11	1.28	1.42	41	28.8	20	✓
6	3-5 x 31 x 1/2	D 524		4685	.54	1.24	.669	17.75	26.5	28	✓
7	4-6 x 60 1/2 x 1/2	A 104		4909	.815	1.25	1.019	27.35	26.8	28	✓
8	5-10 x 36 x 1/2	D 529		4918	.83	1.25	1.037	29.7	28.6	28	✓
9	12-2 x 60 1/2 x 1/2	B 441		4752	1.09	1.25	1.362	37.8	27.7	27	✓
10	12-4 1/2 x 60 1/2 x 1/2	B 441		5223	1.09	1.25	1.362	38.2	28	26	✓
11	12-2 x 60 1/2 x 1/2	A 113		5365	1.09	1.235	1.346	37.6	27.9	26	✓

2-4-86

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by

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