

No. 8068

# TESTS OF BOILER STEEL.

Tests of 115 Steel Plates manufactured by Messrs. N. Beardmore & Co. of Partickhead for Boiler No. 868, to be constructed by Messrs. J. Richardson & Co. of Hartlepool for the S.S. N<sup>o</sup>. 289 building by Messrs. R. Dixon & Co. of Newcastle-on-Tyne.  
Date first visit 3<sup>rd</sup> July last visit 6<sup>th</sup> July No. of visits <sup>Constant</sup> attendance.

The specified in the accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to 12 samples as set forth below, and the temper and bending tests applied to piece cut off 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	15.9 x 8 x 1/2	D120 A	241	51	1.18	601	16.75	27.8	22.5		
	" " "	" B	"	51	1.18	601	16.47	27.4	22.0		
2	7.4 x 74 x 7/8	D154	207	67	1.17	783	21.8	27.8	33.0		
3	15.9 x 42 x 7/8	A98 A	222	66	1.16	765	21.8	28.4	23.0		
	" " "	" B	"	68	1.25	85	23.5	27.6	23.0		
4	16.3 x 38 x 1 1/2	A87 A	180	58	1.18	684	19.0	27.7	24.0		
	" " "	" B	"	58	1.18	684	19.3	28.2	27.0		
5	6.3 x 61 x 3/4	D165	164	78	1.32	1029	29.1	28.2	31.0		
6	" " "	B165	165	74	1.12	828	22.9	27.6	28.0		
7	5.4 x 60 x 3/16	K188	209	78	1.2	936	26.4	28.2	27.0		
8	17.11 x 67 x 5/16	A97 A	287	96	1.2	1152	31.15	27.0	32.0		
	" " "	" B	"	95	1.2	1140	30.88	27.0	33.0		
9	6.3 x 55 x 1 1/2	A94	140	104	1.28	1331	35.55	26.7	30.0		
10	12.8 x 48 x 1 1/2	D159	199	83	1.2	996	28.5	28.6	25.0		
11	15.9 x 42 x 5/8	K187 A	150	64	1.09	697	19.6	28.1	26.0		
	" " "	" B	"	65	1.17	76	21.8	28.6	30.0		
12	4.0 x 33 x 9/16	D159	244	59	1.28	755	22.0	29.1	27.5		

D.P.  
11/7/88

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by

J. H. H. H. H.

Surveyor, Lloyd's Register,

Glasgow 6/7/88