

TESTS OF BOILER STEEL.

Tests of 48 Steel plates manufactured by The Steel Co. of Scotland of Blochman for Boiler No. 241 to be constructed by Messrs J. & S. Thomson of Glasgow for the S.S. No. 241 building by the same firm

Date first visit 23/9 last visit 26/9/87 No. of visits 2

The specified in the accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to 31 samples as set forth below, and the temper and bending tests to a shearing taken from each plate, and additional bends (cold) for all shell plates. Results 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	Girders	F.267	9046	1.39	1.14	1.585	42.6	26.8	26		
2	Top End	H.296	9052	.96	1.31	1.258	35.9	28.5	27		
3			"	.95	1.3	1.235	35.3	28.5	25.5		Cross piece
4	Top End	H.228	9068	.945	1.13	1.068	31.2	29.2	29		
5			"	"	"	"	30.4	28.4	28.5		Cross piece
6	Shell	C.261	9080	1.27	"	1.435	41.25	28.7	27		
7			"	1.24	"	1.401	41.4	29.5	23		Cross piece
8	Shell	F.268	9081	1.26	"	1.424	40.8	28.6	28		
9			"	1.27	"	1.435	40.6	28.2	31.5		Cross piece
10	Shell	E.230	9089	1.27	1.14	1.447	41.15	28.4	24.5		
11			"	1.25	"	1.425	41.15	28.8	26		Cross piece
12	Girders	D.245	9109	1.34	1.13	1.514	43.3	28.5	22.5		
13	Shell	E.230	9114	1.26	"	1.424	41.55	29.1	25.5		
14			"	1.24	"	1.401	40.7	29.0	26		Cross piece
15	Girders	F.271	9116	1.39	1.16	1.612	45.65	28.3	22		
16	Front Tube pl.	H.299	9123	.83	1.28	1.062	29.6	27.8	26		
17			"	.84	1.15	.966	28.0	28.9	25.5		Cross piece
18	Shell Straps	K.299	9131	.95	1.28	1.216	33.45	27.5	28		
19	Top End	G.274	9139	.95	1.14	1.083	30.9	28.5	25.5		
20			"	.95	"	"	31.3	28.9	25		Cross piece
21	Top End	H.257	9141	.96	"	1.094	31.2	28.5	26		
22			"	.94	1.15	1.081	31.3	28.9	24		Cross piece
23	Top End	K.299	9142	.94	1.31	1.231	35.25	28.6	25		
24			"	.95	"	1.244	35.45	28.4	26.5		Cross piece
25	Top End	H.237	9144	.955	1.13	1.08	30.9	28.6	25		
26			"	.96	1.14	1.094	31.45	28.7	25.5		Cross piece
27	Top End	H.237	9149	.96	1.31	1.258	33.75	26.8	30		
28			"	.95	"	1.244	33.95	27.2	31		Cross piece
29	Top End	G.274	9151	.955	1.15	1.098	31.0	28.2	28		
30	Shell Straps		"	.96	1.14	1.094	30.65	28.0	29		Cross piece
31	Shell Straps	B.218	9153	.94	"	1.072	32.45	30.2	17.5		Rejected 3 straps cut from this

Fee £ : :

Expenses £ : :

£ : :

To be paid by

J. M. Roberts
Surveyor, Lloyd's Register.

Glasgow

26/9/87

J. & G. Thomson's
No. 241 B^{rs}



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Foundation