

No. 5594

TESTS OF BOILER STEEL.

Tests of 16 Steel plates manufactured by The Steel & Iron Works of Glasgow
for Boilers No. 241 to be constructed by Messrs J. & W. Thomson of Glasgow
for the S.S. W. 241 building by the same firm

Date first visit 28/9 last visit 5/10/87 No. of visits 4

The specified in the accompanying copy of Advice Notes were rolled from
charges. The tensile test has been applied to 28 samples as set forth below
and the temper and bending tests to a shearing taken 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 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	Shell	C.269		9280	1.29	1.14	1.471	42.25	28.7	28	Cross piece
2				"	"	"	"	42.8	29.0	23.5	
3	Furnace front	D.253		9288	.76	1.15	.874	23.8	27.2	24.5	Cross piece
4				"	"	"	"	24.75	28.3	24.5	
5	"	D.253		9289	"	"	"	23.95	27.4	25	Cross piece
6				"	"	"	"	23.6	27.1	23	
7	"	D.253		9282	.78	"	.897	24.4	27.2	26	Cross piece
8				"	"	1.13	.881	24.15	27.4	25.5	
9	Top End	D.251		9294	.93	1.15	1.07	29.65	27.7	29.5	Cross piece
10				"	.945	1.21	1.143	30.9	27.0	30.5	
11	Main Washers	G.277		9313	.955	1.23	1.175	31.25	26.5	24.5	- do -
12	Manhole door	Stock		9268	1.36	1.15	1.564	44.25	28.2	12	Rejected 5-
13	Front Tube plate	J.274		9336	.84	1.17	.983	26.83	27.3	28	Cross piece
14				"	.81	1.18	.966	26.4	27.6	24.5	
15	"	J.274		9337	.83	1.17	.971	26.7	27.4	30	Cross piece
16				"	.82	1.18	.968	27.2	28.0	27	
17	Furnace front	H.239		9345	.78	"	.92	25.4	27.5	26	Cross piece
18				"	"	"	"	25.8	28.0	26	
19	Front Tube plate	H.239		9346	.84	1.12	.941	25.6	27.2	27.5	Cross piece
20				"	"	1.15	.966	26.1	27.0	29	
21	Top End	H.239		9347	.95	1.12	1.064	28.9	27.1	28	Cross piece
22				"	.94	1.18	1.109	30.3	27.3	26.5	
23	Front Tube plate	D.257		9385	.84	1.13	.949	28.2	29.7	26.5	Cross piece
24				"	"	"	"	27.6	29.0	25	
25	"	H.242		9391	.85	"	.961	26.5	27.5	25.5	Cross piece
26				"	.845	1.12	.946	27.25	28.8	27.5	
27	"	D.257		9387	.82	1.29	1.058	31.75	30.0	26	Cross piece
28				"	.84	1.16	.974	28.3	29.0	27	

Fee £ : :

Expenses £ : :

£ : :

To be paid by