

No. 5419

(Received at London Office, \_\_\_\_\_)

TESTS OF BOILER STEEL.

Tests of 18 Steel plates manufactured by the Steel Co. of Scotland of Glasgow  
for Boilers No. 241 to be constructed by Messrs J. & W. Thomson of Glasgow  
for the S.S. No. 241 building by the same firm

Date first visit 21/10/87 last visit 1/11/87 No. of visits 9

The \_\_\_\_\_ specified in the accompanying copy of Advice Notes were rolled from  
charges. The tensile test has been applied to 22 samples as set forth below,  
and the temper and bending tests to a shearing of 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	H.267		9091	.84	1.33	1.117	32.45	29.0	31	
2	"	"		9093	.81	1.16	.94	26.53	28.2	24.5	
3	"	"		"	"	"	"	26.35	28.0	24.5	Cross piece
4	Tube plate	J.306		2560	.655	"	.76	21.4	28.1	23	
5	Cr. Ch. Back	"		2537	.525	1.12	.588	16.5	28.0	22.5	
6	" " Sides	K.330		9122	.505	1.26	.636	18.55	29.1	26	
7	Butt Straps	"		2849	.33	1.12	.37	11.9	32.1	22.5	Rejd. 2. May fracture
8	Furnace Mantling	L.246		2264	.32	1.16	.371	10.8	29.1	22.5	
9	Shell	D.283		9050	1.3	1.12	1.456	40.9	28.0	26.5	
10	"	"		"	1.3	1.18	1.534	43.35	28.2	30.5	Cross piece
11	Shell	D.280		9073	1.29	1.14	1.471	42.9	29.1	25.5	
12	"	"		"	1.28	1.18	1.51	41.8	27.6	22	Cross piece
13	Furnace Front	C.296		9094	.8	1.16	.928	27.7	29.8	21	
14	"	"		"	.8	1.18	.944	28.2	29.8	22	Cross piece
15	Shell	D.284		9102	1.29	1.09	1.406	41.8	29.7	24	— do —
16	"	"		"	"	"	"	40.8	29.0	22	
17	Shell	H.265		9222	1.28	1.28	1.638	45.6	27.8	29	
18	"	"		"	1.24	1.22	1.513	42.1	27.8	22	Cross piece
19	Shell	D.284		9105	1.29	1.15	1.484	40.7	27.4	28	
20	"	"		"	1.27	1.18	1.499	41.5	27.6	22	Cross piece
21	Shell	G.292		9251	1.27	1.1	1.397	41.3	29.5	23	
22	"	"		"	1.28	1.15	1.472	42.7	29.0	24	Cross piece

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by \_\_\_\_\_