

No. 8659

(Received at London Office,

TESTS OF BOILER STEEL.

Tests of 98 Steel plates manufactured by The Steel Co of Scotland of Glasgow for Boiler No. 2122 to be constructed by Hawthorn Leslie & Co of Newcastle for their S/S. No 291

Date first visit 29/8/88 last visit 14/9/88 No. of visits

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 off each plate with satisfactory results.

No.	Purpose. Dimensions	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.	Brith.	Area.	Total	Sq. Inch		
					Ins.	Ins.	Ins.	Tons.	Tons.		
1	8-10 x 3 1/4 x 1/16	J.280		4357	.705	1.37	.966	28.0	28.9	25.5	
2	15-2 x 70 x 1/16	H.309		6335	1.00	1.4	1.4	38.9	27.7	23	
3	Shell 1 1/2	L.302		368	1.26	1.19	1.499	43.9	29.2	22	
4	9-4 x 83 1/4 x 1/2	C.265		5249	.5	1.29	.645	18.3	28.3	22	
5	End pl. 1 1/2	J.290		402	.96	1.4	1.344	38.0	28.2	21.5	
6	9-3 1/2 x 60 x 5/8	D.272		4302	.64	1.33	.851	25.1	29.4	25.5	
7	7-3 1/2 x 52 x 1/2	A.270		4126	.53	1.3	.689	19.05	27.6	25	Cross piece
8	" x " x "	A.256		4818	.52	1.25	.65	19.0	29.2	23	
9	Straps 1 1/2	L.286		9366	.85	1.37	1.164	33.55	28.8	24.5	
10	B.T.P.	L.285		7535	.82	"	1.123	32.0	28.4	27	
11	3-1 x 3 1/4 x 1/16	O.219		7578	.715	1.11	.794	21.15	26.6	27.5	
12	4-3 1/2 x 22 1/2 x 1/16	Stock		9310	.85	1.16	.986	29.0	29.4	23	
13	9-3 1/2 x 54 x 5/8	O.233		5774	.65	1.28	.832	24.65	29.6	23	Cross piece
14	" x 48 x "	H.288		7666	.635	1.17	.743	21.1	28.3	25.5	
15	7-6 x 3 1/4 x 1/2	H.293		7679	.57	1.39	.709	20.45	28.8	29	
16	9-3 1/2 x 60 x 5/8	E.254		7713	.64	"	.89	25.7	28.8	26	
17	6-8 x 66 1/4 x 1/16	J.277		7717	.825	"	1.147	31.0	27.0	30	
18	Straps	F.257		4081	.81	1.48	1.199	35.0	29.1	28	
19	End pl. 7/8	L.289		26	.91	1.36	1.238	35.0	28.2	24.5	
20	"	H.305		272	.915	1.14	1.043	29.25	28.0	23.5	Cross piece
21	15-2 x 70 x 1/16	F.262		4663	.97	1.3	1.261	37.5	29.7	22	
22	6-6 x 3 1/4 x 1/2	L.219		7363	.57	1.16	.592	16.45	27.7	25	

Fee £ : :

Expenses £ : :

£ : :

To be paid by

Surveyor, Lloyd's Register.

Glasgow

14/9/88