

No. 969

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

(Received in London Office)

## TESTS OF BOILER STEEL.

Tests of 310 Steel Plate manufactured by Messrs S.W. Boardman of Portchard  
for Boilers Nos 280-1-2 to be constructed by Messrs John Elder & Co. of Glasgow  
for their S.S. No 280-1-2

Date first visit Mar 9<sup>th</sup> 1883 last visit May 30<sup>th</sup> 1883 No. of Visits 18

The 310 Plates specified in the accompanying copy of Advice Notes were rolled from  
209 charges. The tensile test has been applied to 38 samples as set forth below,  
and the temper and bending tests to a shearing from each plate with  
satisfactory results excepting to that from plate 1024, 781, which  
failed, the plate being rejected.

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 Plate	K336		1154	.9	1.01	.909	24.24	29.9	28	
2	Shell Straps	A10		1057	.75	1.28	.96	26.56	27.6	27.5	
3	Fire box bottoms	B57		1086	.6	1.4	.84	24.4	29.	27.5	
4	Wing fire box sides	A24		24	.45	1.44	.648	18.53	28.6	24.5	
5	Shell Straps	738		1638	.64	1.33	.857	23.84	27.9	24.5	
6	Centre back tube plate	716		1757	.77	1.26	.97	28.9	29.7	28.	
7	Shell Plate	A37		1263	.93	1.06	.985	28.42	28.8	23	
8	Wing fire box sides	B31		904	.49	1.43	.69	19.35	28.	23.5	
9	Wing back tube plate	K60		961	.78	1.26	.982	27.2	27.6	27.	
10	Fire box bottoms	K52		980	.56	1.45	.812	23.24	28.6	22.	
11	Centre back tube plate	B59		973	.77	1.2	.924	25.55	27.6	28.	
12	Centre fire box sides	A67		295	.47	1.53	.719	19.4	26.9	27.	
13	Fire box bottoms	755		303	.57	1.53	.872	26.1	29.9	22.5	
14	Centre back tube plate	B44		284	.77	1.21	.931	25.41	27.2	22.	
15	Centre fire box sides	A85		361	.5	1.53	.765	20.1	26.2	27.	
16	Wing back tube plate	A18		394	.78	1.06	.826	22.76	27.8	23	
17	Shell Plate	A390		1720	.97	1.01	.979	27.31	28.9	23.	
18	"	A395		1717	.99	1.01	.999	28.03	28.	29.	
19	Shell Straps	773		1829	.67	1.0	.67	18.42	27.4	26	
20	Shell Plate	K75		1844	.94	1.02	.958	28.58	29.8	27.	
21	"	K58		1982	.96	1.0	.96	26.4	27.5	31.	
22	"	783		1980	.94	1.05	.987	28.1	28.4	22.	
23	Front tube plate	776		34	.7	1.29	.903	25.35	28.0	26.	
24	Centre fire box side	K103		981	.52	1.36	.707	20.08	28.4	23.	
25	Wing fire box top	B100		1112	.52	1.44	.749	20.74	27.6	23.5	
26	Front tube plate	787		117	.7	1.24	.868	24.47	28.1	23.	
27	Top front	727		1102	.81	1.27	1.029	28.18	27.3	31.	
28	Shell	A349		1105	.98	1.1	1.078	32.7	30.3	15	Repeated 1 plate
29	Shell	K115		1230	.99	1.0	.99	28.37	28.6	32	
30	Top front	B102		1342	.83	1.23	1.021	29.5	28.8	26.5	
31	"	A100		1053	.83	1.14	.946	27.6	29.1	28.	

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Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by The Steel Manufacturers

Surveyor, Lloyd's Register,



*M  
Chasgow*



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