

TESTS OF BOILER STEEL.

Tests of 33 Steel Plates manufactured by Laudore & Sons Ltd of Laudore
for Boiler No. to be constructed by Wigham Richardson & Co of Newcastle
for Vessel Building by Maas & Son of Amsterdam Holland

Date first visit 8th August last visit 11th Sept No. of Visits 4

The Plates specified in the accompanying copy of Advice Notes were rolled from
9 charges. The tensile test has been applied to 4 samples as set forth below,
and the temper and bending tests to every slab with satisfactory results

No.	Purpose.	Charge Mark.	No. of plates or bars in same charge	Mark on plate and test piece.	Dimensions.			Ultimate Stress.		Elong. in 8 ins.	Remarks.
					Thickn.	Brdth.	Area.	Total.	Sq. Inch.		
					Inch.	Inch.	Sq. In.	Tons.	Tons.	%.	
250	4.10 1/2 skel.	13/8 F	4	R	.65	1.31	.857	22.50	26.4	31.	
246	8.6 x 4.11 x 1/2	13/8 F	2	"	.5	1.37	.685	18.	26.2	27.5	
244	9.10 skel.	13/8 F	3	"	.54	1.38	.745	20.	26.8	28.	
212	5.14 1/2 sk.	13/8 H	2	"	.82	1.31	1.07	29.75	27.8	30.	

W.S.
19/9/83

Fee £ 1 : 5 : "

Expenses £ : :

£ 1 : 5 : "

To be paid by Laudore & Sons Ltd

John Asheton
Surveyor, Lloyd's Register,
Lloyd's Register
Foundation

Lloyd's Register
Foundation

TESTS OF BOILER STEEL

The following table shows the results of the tests of boiler steel, as conducted by the Committee of the Institution of Mechanical Engineers, in 1880, and as published in the Report of the Committee, 1881, p. 10.

No.	Thickness of Plate, in.	Length of Specimen, in.	Width of Specimen, in.	Weight of Specimen, lbs.	Yield Point, lbs.	Ultimate Tensile, lbs.	Elongation, in.	Reduction of Area, %
1	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
2	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
3	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
4	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
5	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
6	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
7	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
8	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
9	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
10	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
11	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
12	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
13	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
14	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
15	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
16	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
17	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
18	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
19	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
20	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
21	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
22	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
23	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
24	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
25	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
26	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
27	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
28	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
29	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
30	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
31	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
32	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
33	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
34	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
35	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
36	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
37	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
38	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
39	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
40	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
41	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
42	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
43	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
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45	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
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51	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
52	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
53	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
54	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
55	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
56	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
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60	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
61	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
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63	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
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73	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
74	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
75	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
76	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
77	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
78	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
79	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
80	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
81	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
82	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
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96	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
97	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
98	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
99	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40
100	1/2	12	1 1/2	11.2	10.5	20.5	0.15	40

Stephen Duckworth
1886