

No. 164.

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

(Received in London Office,

TESTS OF BOILER STEEL.

Tests of <sup>66</sup> Steel plates manufactured by the Leeds Forge Co of Leeds  
for Boiler No. to be constructed by Messrs Stewart & Sons of Blackwall  
for the Steam Ship Rhoni

Date first visit 7<sup>th</sup> July '85 last visit 18<sup>th</sup> July '85 No. of Visits

The Plates specified in the accompanying copy of Advice Notes were rolled from  
charges. The tensile test has been applied to 46 samples as set forth below,  
and the temper and bending tests to a sample from each plate Specific Ground  
Satisfactory

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	Boiler Fronts.	R. 262		4596	.62	1.41	.874	21.50	24.6	28.1	
2	Shell	R. 260		4516	.67	1.41	.944	24.50	25.9	22.6	
3	d.	R. 262		4517	.675	1.41	.957	25.0	26.2	27.3	
4	d.	R. 264		4518	.685	1.41	.965	25.50	26.4	26.5	
5	d.	A. 265		4548	.65	1.41	.916	23.00	25.1	23.4	Rejected.
6	d.	A. 265		4549	.65	1.40	.910	24.50	26.9	25.0	
7	d.	A. 265		4550	.67	1.405	.941	25.00	26.4	15.6	Broke close to end.
8	d. reject.	"		"	.67	1.37	.917	24.50	26.7	26.5	
9	d.	A. 265		4545	.67	1.405	.941	25.0	26.4	26.5	
10	d.	A. 265		4617	.685	1.41	.965	25.50	26.4	25.0	
11	d.	A. 261		4467	.66	1.405	.927	24.50	26.4	22.6	
12	d.	A. 266		4468	.645	1.405	.906	24.50	27.0	26.5	
13	d.	A. 260		4471	.675	1.405	.948	25.0	26.3	29.7	
14	d.	A. 262		4498	.65	1.41	.916	25.0	27.2	26.5	
15	d.	A. 260		4502	.67	1.405	.941	25.0	26.4	25.0	
16	d.	A. 264		4503	.68	1.405	.955	24.5	25.6	12.5	Rejected.
17	d.	A. 262		4504	.67	1.405	.941	24.0	25.5	25.0	Second
18	d. reject -	A. 260		4506	.675	1.50	1.012	26.50	26.1	28.1	
19	d.	A. 263		4507	.67	1.41	.944	24.5	25.9	24.2	
20	d.	A. 263		4508	.64	1.405	.899	24.0	26.6	27.3	
21	F. T. P.	B. 357		4577	.64	1.40	.896	22.5	25.1	24.2	
22	C. B.	A. 261		4457	.60	1.40	.840	23.5	27.9	22.6	
23	S. C. S.	B. 370		4599	.39	1.70	.663	19.5	29.4	21.5	
24	"	A. 240		4600	.39	1.71	.666	17.5	26.2	24.2	
25	"	B. 352		4621	.39	1.70	.663	20.0	30.1	23.4	
26	"	A. 287		5792	.39	1.765	.688	19.0	27.6	30.5	
27	S. C. E.	A. 243		4625	.415	1.705	.707	18.5	26.1	23.4	
28	S. C. N. P.	A. 258		4563	.525	1.72	.903	26.0	28.7	23.4	
29	F. C.	A. 256		4492	.45	1.705	.767	20.5	26.7	22.6	
30	F. B.	A. 220		4460	.57	1.70	.867	24.5	28.2	25.0	
31	"	A. 190		4462	.52	1.71	.889	25.0	28.1	26.5	
32	"	A. 252		4479	.525	1.71	.897	23.0	25.6	14.0	Rejected - Bone not good
33	"	A. 281		5793	.575	1.765	.908	24.0	26.4	25.8	

21/7/85

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by the Leeds Inq.

Lloyd's Register  
Surveyor, Lloyd's Register,  
at Hull



No. 164 (6) LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

(Received in London Office, )

## TESTS OF BOILER STEEL.

Tests of 86 Steel plates manufactured by *The Leeds Forge Co.* of *Leeds*  
for Boiler No. *to be constructed by Mess Stewart & Sons* of *Blackwall*  
for *the Steam Ship Rhone*

Date first visit *7th July* last visit *15 July* 85 No. of Visits *3*.

The plates specified in the accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to *46* samples as set forth below, and the temper and bending tests *to a sample from each plate. Found satisfactory*

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.		
34	B. T. P.	S.	10	615	1.40	.861	24.50	28.4	25.0		
35	-	B. 352	4623	.58	1.46	.817	22.50	27.5	26.5		<i>Examine plate for thickness.</i>
36	-	B. 330	4630	.61	1.408	.857	23.0	26.8	29.7		
37	C. C. P.	A. 261	4470	.50	1.71	.855	21.50	25.1	29.7		
38	-	B. 181	4556	.57	1.71	.872	26.50	30.3	17.2		<i>Rejected</i>
39	-	A. 288	5034	.52	1.52	.790	22.0	27.8	27.3		
40	C. C. S	B. 375	4554	.57	1.71	.872	26.50	30.3	13.2		<i>Rejected</i>
41	-	A. 270	5031	.50	1.52	.760	19.50	25.6	31.2		
42	-	A. 196	4566	.50	1.71	.855	24.50	28.8	21.0		
43	-	B. 383	4609	.57	1.70	.867	22.50	25.9	20.3		
44	-	A. 238	4478	.50	1.71	.855	24.0	28.0	23.4		
45	Shell	A. 288	5024	.665	1.50	.997	26.0	26.0	24.2		
46	d.	A. 285	5791	.67	1.365	.914	24.0	26.2	28.9		

Total weight *26.6.0.6*

*21/7/85*

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by *The Leeds Forge Co.*

Surveyor, Lloyd's Register,