

No. 2641.

TESTS OF BOILER STEEL.

Tests of 92 Steel plates manufactured by Messrs A. W. Beardmore of Parkhead
for Boiler No. 813 to be constructed by J. Richardson & Son of West Hartlepool
for the S.S. 210 " " " " J. L. Thompson & Son, Sunderland.

Date first visit May 27th last visit June 9th/85 No. of visits 5

The steel plates specified in the accompanying copy of Advice Notes were rolled from
charges. The tensile test has been applied to 25 samples as set forth below,
and the temper and bending tests to samples representative of every plate
advised 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	20. 3 3/4 x 52 3/8 x 1 3/32	D64		611	.99	1.09	1.079	31.16	28.8	24	
2	6. 4 x 52 3/8 x 1 3/32	A64		405	.83	1.06	.879	25.64	29.1	24	
3	14. 0 x 51 1/2 x 3/4	D42		459	.74	1.01	.744	20.44	27.7	26	
4	4. 0 R x 63 x 1	F85		493	1.	1.06	1.06	29.43	27.7	29	
5	" " "	F216		494	.99	1.04	1.029	27.04	26.3	26	
6	6. 11 R " "	F215		496	1.01	1.04	1.05	30.05	28.6	32	
7	20. 7/8 x 52 3/8 x 1 3/32	F254		512	1.02	1.03	1.05	29.9	28.4	25	
8	6. 1 x 41 x 1 3/16	N132		437	.81	1.25	1.012	29.05	28.7	25	
9	" " "	L91		439	.83	1.07	.888	24.9	28	24	
10	6. 11 x 63 x 3/4	M38		454	.76	1.27	.965	27	27.9	31	
11	17. 10 x 29 x 1/2	F86		449	.5	1.32	.66	18	27.2	27	
12	" " "	F81		450	.52	1.3	.676	19.61	29	25	
13	20. 7/8 x 52 3/8 x 1 3/32	B68		513	1.01	1.02	1.03	28.84	28	23	
14	" " "	F48		511	1.01	1.02	1.03	29.98	29.1	23	
15	20. 3 3/4 x " "	L26		549	1.01	1.04	1.05	31.2	29.7	22	
16	4. 0 x 24 x 3/4	B290		551	.75	1.06	.795	21.85	27.4	33	
17	7. 8 x 42 x 1/2	N134		644	.45	1.5	.675	18.94	28	24	
18	6. 4 x 47 x 1 3/32	L26		612	.97	1.1	1.064	31.1	29.1	23	
19	2. 6 x 9 x 7/8	A85		563	.86	1.11	.954	26.5	27.7	20	
20	6. 4 x 32 x 1/2	L64		602	.5	1.47	.735	20	27.2	30	
21	" " "	A48		643	.53	1.07	.567	16.14	28.4	31	
22	7. 8 x 42 x 1/2	A83		721	.52	1.34	.696	19.1	27.4	30	
23	20. 3 3/4 x 52 3/8 x 1 3/32	B45		740	1.04	1.02	1.06	28.94	27.3	26	
24	14. 0 x 51 1/2 x 3/4	N219		230	.77	1.1	.847	24.1	28.4	27	
25	4. 10 x 32 x 5/8	L70		896	.63	1.17	.737	21.36	28.9	26	

Fee £ : :
Expenses £ : :
£ : :

To be paid by Messrs A. W. Beardmore Glasgow