

No. 52.

(Received in London Office,

RECEIVED 3rd MAR 83.

TESTS OF BOILER STEEL.

Tests of 38 Steel plates manufactured by the Leeds Forge Co. of Leeds
for Boiler No. 285 to be constructed by the Greenock Foundry of Greenock
for S.S. 228.

Date first visit 12 Feb. 83 last visit 23 Feb. 83 No. of Visits 2

The Plates specified in the accompanying copy of Advice Notes were rolled from
charges. The tensile test has been applied to 9 samples as set forth below,
and the temper and bending tests to a sample representing each of the plates
specified.

No.	Purpose.	Charge Mark.	No. of plates or bars in same charge	Mark on plate and test piece.	Dimensions.			Ultimate Stress.		Exten. in 18 ins.	Remarks.
					Thickn.	Brdth.	Area.	Total.	Sq. Inch.		
					Ins.	Ins.	Ins.	Tons.	Tons.	%.	
1	Britus	-	-	542							
2	d.	-	-	485	4.85	2.00	.970	22.25	22.93	30	7.5 x 34 3/4 x 1/2
3	d.	-	-	391	4.80	2.00	.960	21.50	22.39	27.5	9.0 1/2 x " x "
4	d.	-	-	538	4.65	2.00	.930	23.00	24.73	20.6	3.7 x " x "
5	ch	-	-	544	.575	2.00	1.03	23.75	23.05	27.5	7.8 1/2 x 60 1/2 x -
6	ch	-	-	561	.690	1.52	1.048	25.50	24.33	23.7	2 in plate
7	ch	-	-	481	.760	1.57	1.147	27.50	23.97	30.0	5.2 1/2 x 61 1/4 x 3/4
8	d.	-	-	392	.720	1.525	1.098	26.00	23.67	25.0	5.6 x 39 3/4 x "
9	ch	-	-	557	.500	2.00	1.00	23.50	23.50	30.6	2.10 1/2 x 24 x 1/2
9	d.	-	-	400	4.85	2.00	.970	21.25	21.9	34.3	7.6 1/2 x 34 3/4 x 1/2

M 3 1/2 / 83

Fee £ 2 : 2 : 0

Expenses £ 1 : 14 : 0

£ 3 : 16 : 0

To be paid by Greenock Foundry.