

S.S. Invermay N. H. Pl. Report N. 5520

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

No. 109

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FEB. 84

## TESTS OF BOILER STEEL.

Tests of ~~107~~ <sup>9</sup> Steel plates manufactured by the Leeds Forge Co of Leeds for Boiler No. 899, to be constructed by Messrs Blair & Co of Stockton for the S.S. designated N. 97, by Messrs Turnbull & Son of Whitby

Date first visit 2<sup>nd</sup> Feb. 84 last visit 19<sup>th</sup> Feb. 84. No. of Visits 3

The Plates specified at foot of accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to samples as set forth below, and the temper and bending tests to a cutting from each plate in the batch

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	Plate to sketch			857	.856	1.12	.958	24.5	25.50	23.4	
2	7.5 x 6.5 x 9/16			1004	.590	1.38	.874	21.50	26.4	25.0	
3	7.7 x 1.1 x "			1003	.590	1.37	.808	22.50	27.8	25.0	
4	7.7 x 1.1 x "			770	.580	1.73	1.00	27.00	27.00	26.5	
5	1.1 x 1.1 x "			771	.615	1.40	.861	23.00	26.7	17.9	Sample made of factory plates
6	1.1 x 1.1 x "			771x	.574	1.75	.945	23.00			cut by the dips at 1/4" intervals
"	1.1 x 1.1 retest.			"	.56	1.73	.968	23.50	24.2	21.8	but went to 2 1/4" intervals
<p>List of plates selected from <u>Wonders Mr John Barrie. Strathclyde</u></p> <p>7.7 x 6.5 x 9/16 .4 plates. 770, <del>771</del>, 773. 1003. 771x</p> <p>7.5 x 6.5 x 9/16 .2 do 858, 1004.</p> <p>2 sketch plates (9/16) 856, 857.</p> <p>23/2/86</p>											

List of plates selected from (under Mr John Bowie, Stockton)  
 7.7 x 6.5 x 9/16 4 plates. 770, ~~771~~, 773, 1003, 771 x  
 7.5 x 6.5 x 9/16 2 d. 858, 1004.  
 2 sketch plates (7/8) 856, 857.

M 23/2/84

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by The Leeds Forge Co

Surveyor, Lloyd's Register

at Leeds