

No. 565.

(Received in London Office,

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TESTS OF BOILER STEEL.

Tests of *57* Steel plates manufactured by the *Steel Co. of Scotland at Blocharn, Glasgow.*
for Boiler No. *66* to be constructed by *Messrs Bailey & Betham of Hull.*
for steam vessel *Lorne*

Date first visit *20th June/82* last visit *3rd Oct/82* No. of Visits *10*

The *steel plates* specified in the accompanying copy of Advice Notes were rolled from *34* charges. The tensile test has been applied to *6* samples as set forth below, and the temper and bending tests to samples representative of every plate advised. They were all 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.		
<i>1</i>	<i>Shell</i>	<i>K382</i>	<i>1</i>	<i>5976</i>	<i>.69</i>	<i>1.34</i>	<i>.924</i>	<i>27.5</i>	<i>29.7</i>	<i>29.</i>	
<i>2</i>	<i>Top end</i>	<i>H615</i>	<i>1</i>	<i>710</i>	<i>.705</i>	<i>1.14</i>	<i>.803</i>	<i>22.57</i>	<i>28.1</i>	<i>24.5</i>	
<i>3</i>	<i>Shell</i>	<i>L355</i>	<i>2</i>	<i>805</i>	<i>.7</i>	<i>1.36</i>	<i>.952</i>	<i>25.84</i>	<i>27.1</i>	<i>30.</i>	
<i>4</i>	<i>Back Tube plate</i>	<i>Q630</i>	<i>2</i>	<i>717</i>	<i>.65</i>	<i>1.35</i>	<i>.877</i>	<i>23.74</i>	<i>27.</i>	<i>27.</i>	
<i>5</i>	<i>Furnace</i>	<i>Q12</i>	<i>1</i>	<i>8606</i>	<i>.51</i>	<i>1.34</i>	<i>.683</i>	<i>19.95</i>	<i>29.2</i>	<i>23.5</i>	
<i>6</i>	<i>Do.</i>	<i>K2</i>	<i>1</i>	<i>8593</i>	<i>.5</i>	<i>1.355</i>	<i>.677</i>	<i>18.39</i>	<i>27.1</i>	<i>25.</i>	

N. B. The samples used for tensile tests and all the plates were annealed.

W. Nelson

Fee £ : :

Expenses £ : :

£ : :

To be paid by *the Steel Co. of Scotland*
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William Nelson
Surveyor, Lloyd's Register
Steel Co. of Glasgow
1/11/82

Kull



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Foundation