

No. 104.

TESTS OF BOILER STEEL.

Tests of 19 Steel plates manufactured by *The Mandale Iron Co. of Sunnymer*
for Boiler *No. 18* to be constructed by *W. G. Banks Shipbuilding Co. of Hull.*
for *and 289*

Date first visit *June 26th* last visit *June 29th* No. of Visits *two*

The *plates* specified in the 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 samples cut from each of the plates*
and three of the bars with satisfactory results.

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.	%	
	<i>16.0 x 6.0 1/2 x 1/2</i>	<i>645</i>	<i>✓</i>	<i>645A.5</i>	<i>1.54</i>	<i>.77</i>		<i>21.87</i>	<i>28.4</i>	<i>20.</i>	
	<i>" " x " " x 1/2</i>	<i>672</i>	<i>✓</i>	<i>672A.51</i>	<i>1.52</i>	<i>.775</i>		<i>22.98</i>	<i>29.6</i>	<i>22.5</i>	
	<i>15.9 x 3.7 x 7/16</i>	<i>640</i>	<i>✓</i>	<i>640A.47</i>	<i>2.06</i>	<i>.968</i>		<i>26.33</i>	<i>27.2</i>	<i>25.</i>	
	<i>7.2 x 2.0 x 9/16</i>	<i>683</i>	<i>✓</i>	<i>683F.56</i>	<i>1.51</i>	<i>.845</i>		<i>23.24</i>	<i>27.4</i>	<i>28.75</i>	
	<i>Plates x 1.</i>	<i>650</i>	<i>✓</i>	<i>650.99</i>	<i>1.55</i>	<i>1.53</i>		<i>39.95</i>	<i>26.</i>	<i>23.5</i>	
	<i>" " x 5/8</i>	<i>682</i>	<i>✓</i>	<i>682B.66</i>	<i>1.55</i>	<i>1.023</i>		<i>28.57</i>	<i>27.9</i>	<i>22.</i>	
	<i>" " x 1/4</i>	<i>673</i>	<i>✓</i>	<i>673B.77</i>	<i>1.56</i>	<i>1.2</i>		<i>31.46</i>	<i>26.2</i>	<i>24.75</i>	

Im
6/7/85

Fee £ : :

Expenses £ : :

£ : :

To be paid by *Manufacturers.*

James J. Smiley.

Surveyor, Lloyd's Register,

West-Whitby.