

No. 153.

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

(Received in London Office)



TESTS OF BOILER STEEL.

Tests of 140 Steel Plates manufactured by Bolton Vaughan & Co of Middlesbrough for Boiler No. _____ to be constructed by Black & Hawthorn of Gateshead for Locomotive Boilers. Building by Black & Hawthorn Robson & Co Leeds Date first visit 27 July last visit 25 Sep No. of visits ✓

The _____ specified in the accompanying copy of Advice Notes were rolled from _____ charges. The tensile test has been applied to 16 samples as set forth below, and the temper and bending tests 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.	Ins.	Tons.	Tons.	%	
	<u>9.3 3/4 x 32 3/4 x 3/8</u>	<u>34</u>		<u>75</u>	<u>.35</u>	<u>1.0</u>	<u>.35</u>	<u>9.81</u>	<u>28.0</u>	<u>22.</u>	
	<u>10.4 1/2 x 35 3/8 x 3/8</u>	<u>34</u>		<u>188</u>	<u>.34</u>	<u>1.01</u>	<u>.343</u>	<u>9.57</u>	<u>27.9</u>	<u>23.</u>	
	<u>2.7 1/2 x 10 x 5/8</u>	<u>111</u>		<u>81</u>	<u>.6</u>	<u>1.02</u>	<u>.61</u>	<u>17.7</u>	<u>28.9</u>	<u>27.</u>	
	<u>8.3 x 5.9 1/2 x 9/16</u>	<u>111</u>		<u>10</u>	<u>.55</u>	<u>1.0</u>	<u>.55</u>	<u>15.01</u>	<u>27.9</u>	<u>24.</u>	
	<u>4.4 x 3.3 x 7/16</u>	<u>115</u>		<u>83</u>	<u>.42</u>	<u>1.0</u>	<u>.42</u>	<u>11.82</u>	<u>28.0</u>	<u>27.</u>	
	<u>4.9 1/2 x 5 1/2 x 3/8</u>	<u>115</u>		<u>216</u>	<u>.4</u>	<u>1.0</u>	<u>.4</u>	<u>11.16</u>	<u>27.9</u>	<u>22.</u>	
<u>Test</u>	<u>19.1 3/4 x 4.11 x 1 1/16</u>	<u>62</u>		<u>3</u>	<u>1.01</u>	<u>1.01</u>	<u>1.02</u>	<u>27.67</u>	<u>27.1</u>	<u>20.</u>	
	<u>3.1 x 10 x 1 3/16</u>	<u>83</u>		<u>7</u>	<u>.8</u>	<u>1.01</u>	<u>.808</u>	<u>22.54</u>	<u>27.9</u>	<u>24.</u>	
<u>Test</u>	<u>8.3 x 5.9 1/2 x 9/16</u>	<u>85</u>		<u>8</u>	<u>.55</u>	<u>1.01</u>	<u>.555</u>	<u>15.62</u>	<u>28.0</u>	<u>22.</u>	
<u>Test</u>	<u>6.3 1/2 x 2.8 x 9/16</u>	<u>89</u>		<u>13</u>	<u>.56</u>	<u>1.01</u>	<u>.565</u>	<u>15.89</u>	<u>28.0</u>	<u>20.</u>	
	<u>4.6 1/2 x 5 1/2 x 3/4</u>	<u>144</u>		<u>17</u>	<u>.77</u>	<u>1.01</u>	<u>.777</u>	<u>21.0</u>	<u>27.1</u>	<u>26.</u>	
	<u>6.9 Radius x 9/16</u>	<u>146</u>		<u>20</u>	<u>.55</u>	<u>1.01</u>	<u>.555</u>	<u>15.62</u>	<u>28.0</u>	<u>22.</u>	
	<u>6.9 " " 7/8</u>	<u>148</u>		<u>27</u>	<u>.88</u>	<u>1.0</u>	<u>.88</u>	<u>24.7</u>	<u>28.1</u>	<u>25.</u>	
	<u>4.5 1/2 x 5 1/2 x 3/8</u>	<u>156</u>		<u>92</u>	<u>.37</u>	<u>1.0</u>	<u>.37</u>	<u>10.5</u>	<u>28.3</u>	<u>24.</u>	
	<u>2.7 1/2 x 7 1/2 x 1/2</u>	<u>156</u>		<u>103</u>	<u>.5</u>	<u>1.0</u>	<u>.5</u>	<u>14.0</u>	<u>28.0</u>	<u>23.</u>	
<u>Test</u>	<u>19.5 x 5.9 x 1 1/16</u>	<u>221</u>		<u>2</u>	<u>1.02</u>	<u>1.0</u>	<u>1.02</u>	<u>28.7</u>	<u>28.2</u>	<u>25.</u>	

D.F.
7/10/85

Fee £ : :
Expenses £ : :
£ : :

To be paid by Manufacturers

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Lobster No 9 Tessel

Black No 848

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