



TESTS OF BOILER STEEL.

38 Steel Plate manufactured by *The Dundee Iron Co. of Dundee*
Boiler No. *818* to be constructed by *W. H. P. Report No. 6209*
J. T. Thompson & Co. Ld. No. 214

Date first visit *✓* last visit *13th Nov. 1885* No. of visits *1*

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 a piece cut from each plate named in advice note with satisfactory results.*

| 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>Thin bar</i> | <i>1009</i> | <i>✓</i> | <i>1009</i> | <i>.57</i> | <i>1.55</i> | <i>.79</i> | <i>20.53</i> | <i>26.</i> | <i>22.5</i> | |
| <i>" "</i> | <i>1008</i> | <i>✓</i> | <i>1008</i> | <i>.53</i> | <i>1.55</i> | <i>.821</i> | <i>22.09</i> | <i>26.9</i> | <i>27.75</i> | |
| <i>Open tube plate</i> | <i>1027</i> | <i>✓</i> | <i>1027</i> | <i>.86</i> | <i>1.53</i> | <i>1.315</i> | <i>35.49</i> | <i>26.9</i> | <i>12.5</i> | <i>Thin, at edge</i> |
| <i>Form - " "</i> | <i>1015</i> | <i>✓</i> | <i>1015</i> | <i>.74</i> | <i>1.55</i> | <i>1.147</i> | <i>33.99</i> | <i>29.5</i> | <i>22.</i> | |
| <i>" " "</i> | <i>1029</i> | <i>✓</i> | <i>1029</i> | <i>.74</i> | <i>1.56</i> | <i>1.154</i> | <i>33.48</i> | <i>29.</i> | <i>25.</i> | |
| <i>Shell .</i> | <i>1022</i> | <i>✓</i> | <i>1022</i> | <i>.93</i> | <i>1.53</i> | <i>1.422</i> | <i>41.06</i> | <i>28.8</i> | <i>26.75</i> | |
| <i>" "</i> | <i>1024</i> | <i>✓</i> | <i>1024</i> | <i>.94</i> | <i>1.53</i> | <i>1.438</i> | <i>41.93</i> | <i>29.1</i> | <i>25.75</i> | |
| <i>Shell straps</i> | <i>1017</i> | <i>✓</i> | <i>1017</i> | <i>.79</i> | <i>1.52</i> | <i>1.216</i> | <i>35.49</i> | <i>29.1</i> | <i>21.25</i> | |
| <i>" " "</i> | <i>917</i> | <i>✓</i> | <i>917</i> | <i>.76</i> | <i>1.55</i> | <i>1.178</i> | <i>33.7</i> | <i>28.6</i> | <i>28.</i> | |
| <i>" " "</i> | <i>1005</i> | <i>✓</i> | <i>1005</i> | <i>.575</i> | <i>1.54</i> | <i>.777</i> | <i>21.65</i> | <i>27.7</i> | <i>24.</i> | |
| <i>Tube plate</i> | <i>1027</i> | <i>✓</i> | <i>1027</i> | <i>.66</i> | <i>1.55</i> | <i>1.023</i> | <i>29.46</i> | <i>28.7</i> | <i>22.25</i> | <i>See Serial 2-821</i> |
| <i>Form - Tlx</i> | <i>1040</i> | <i>✓</i> | <i>1040</i> | <i>.99</i> | <i>1.55</i> | <i>1.534</i> | <i>44.76</i> | <i>29.1</i> | <i>26.25</i> | |
| <i>Formau joints</i> | <i>1020</i> | <i>✓</i> | <i>1020</i> | <i>.76</i> | <i>1.55</i> | <i>1.178</i> | <i>35.04</i> | <i>29.7</i> | <i>23.5</i> | |

Fee £ : :
Expenses £ : :
£ : :

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