

No. 8622

## TESTS OF BOILER STEEL.

Tests of *55* Steel plate manufactured by *The Steel Co. of Scotland of Blochairn*  
for Boiler No. *2116* to be constructed by *Hawthorn Leslie & Co. of Newcastle*  
for *their S/S. No. 287*

Date first visit *4/9/88* last visit *11/9/88* No. of visits \_\_\_\_\_

The \_\_\_\_\_ specified in the accompanying copy of Advice Notes were rolled from  
charges. The tensile test has been applied to *12* samples as set forth below,  
and the temper and bending tests *to a shearing off each plate with*  
*Satisfactory results.*

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.	Br. lth.	Area.	Total	Sq. Inch		
					Ins.	Ins.	Ins.	Tons.	Tons.	%	
1	<i>Straps 13/16</i>	<i>E241</i>		<i>89</i>	<i>.85</i>	<i>1.39</i>	<i>1.182</i>	<i>33.0</i>	<i>27.9</i>	<i>23</i>	
2	<i>13-6 x 5 1/8 x 1 1/8</i>	<i>L292</i>		<i>115</i>	<i>1.11</i>	<i>1.31</i>	<i>1.454</i>	<i>41.1</i>	<i>28.2</i>	<i>25</i>	
3	<i>19-0 1/8 x 6 3/8 x 1 1/8</i>	<i>H300</i>		<i>120</i>	<i>1.14</i>	<i>.</i>	<i>1.493</i>	<i>42.8</i>	<i>28.6</i>	<i>26</i>	
4	<i>13-4 3/4 x " x "</i>	<i>0.228</i>		<i>190</i>	<i>1.15</i>	<i>1.29</i>	<i>1.484</i>	<i>42.7</i>	<i>28.7</i>	<i>23</i>	
5	<i>4-9 x 4 0 1/2 x 1 1/8</i>	<i>H294</i>		<i>4131</i>	<i>.685</i>	<i>1.31</i>	<i>.897</i>	<i>24.75</i>	<i>27.5</i>	<i>26.5</i>	
6	<i>4-3 1/2 x 1 1/2 x 1 1/8</i>	<i>L290</i>		<i>4163</i>	<i>.82</i>	<i>.</i>	<i>1.074</i>	<i>31.0</i>	<i>28.8</i>	<i>26</i>	<i>Cross piece</i>
7	<i>68 x 6-8 1/2 R. x 1 1/8</i>	<i>A272</i>		<i>4388</i>	<i>.97</i>	<i>.</i>	<i>1.271</i>	<i>36.0</i>	<i>28.3</i>	<i>22.5</i>	
8	<i>13-6 x 5 1/8 x 1 1/8</i>	<i>H299</i>		<i>4409</i>	<i>1.08</i>	<i>.</i>	<i>1.415</i>	<i>41.6</i>	<i>29.4</i>	<i>25</i>	
9	<i>4-9 x 4 0 1/2 x 1 1/8</i>	<i>Stock</i>		<i>4677</i>	<i>.7</i>	<i>1.38</i>	<i>.966</i>	<i>26.9</i>	<i>27.8</i>	<i>25</i>	
10	<i>13-6 x 5 1/8 x 1 1/8</i>	<i>A275</i>		<i>4788</i>	<i>1.09</i>	<i>.</i>	<i>1.804</i>	<i>43.6</i>	<i>28.9</i>	<i>25</i>	
11	<i>5-7 1/2 x 3 8 x 7/16</i>	<i>L297</i>		<i>4778</i>	<i>.44</i>	<i>1.21</i>	<i>.532</i>	<i>14.6</i>	<i>27.4</i>	<i>26</i>	
12	<i>68 x 6-8 1/2 R x 1 1/8</i>	<i>0.231</i>		<i>4919</i>	<i>.93</i>	<i>1.14</i>	<i>1.06</i>	<i>30.2</i>	<i>28.4</i>	<i>23</i>	

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by

Surveyor, Lloyd's Register.