



No. *7/12*

## TESTS OF BOILER STEEL.

Tests of Steel Plates manufactured by Heardale Iron Works of Sheffield  
 for Boiler No. 840 to be constructed by T. Richardson & Sons of Hartlepool  
 for

Date first visit 3<sup>rd</sup> June '87 Last visit \_\_\_\_\_ No. of visits 1

The Plates specified in the accompanying copy of Advice Notes were rolled from  
S charges. The tensile test has been applied to 10 samples as set forth below,  
 and the temper and bending tests were 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.]		
	<i>Furnace covers</i>		<i>3472</i>	<i>G. 64</i>	<i>1.49</i>	<i>.983</i>	<i>26.78</i>	<i>28.1</i>	<i>30</i>		
	<i>" bottoms</i>		<i>3451</i>	<i>G. 62</i>	<i>"</i>	<i>.923</i>	<i>26.83</i>	<i>28.5</i>	<i>23</i>		
	<i>" "</i>		<i>"</i>	<i>" 62</i>	<i>"</i>	<i>.923</i>	<i>26.56</i>	<i>28.7</i>	<i>25</i>		
	<i>" Straps</i>		<i>3472</i>	<i>G. 49</i>	<i>"</i>	<i>.730</i>	<i>20.53</i>	<i>28.1</i>	<i>26</i>		
	<i>" "</i>		<i>"</i>	<i>" 48</i>	<i>"</i>	<i>.715</i>	<i>20.08</i>	<i>28.0</i>	<i>24</i>		
	<i>Back Tube</i>		<i>5852</i>	<i>G. 81</i>	<i>"</i>	<i>1.206</i>	<i>34.37</i>	<i>28.4</i>	<i>23</i>		
	<i>Front "</i>		<i>"</i>	<i>S 74</i>	<i>"</i>	<i>1.102</i>	<i>31.25</i>	<i>28.3</i>	<i>26</i>		
	<i>" top</i>		<i>3495</i>	<i>" 100</i>	<i>"</i>	<i>1.490</i>	<i>42.81</i>	<i>28.7</i>	<i>24</i>		
	<i>Shell straps</i>		<i>3499</i>	<i>" 90</i>	<i>"</i>	<i>1.341</i>	<i>39.28</i>	<i>29.2</i>	<i>27</i>		
	<i>Furnace front</i>		<i>"</i>	<i>G 78</i>	<i>"</i>	<i>1.417</i>	<i>32.14</i>	<i>28.7</i>	<i>27</i>		

Fee ..... £ : :  
 Expenses £ : :  
 £ : :

To be paid by

© 2021  
*Wm R. Austin*  
 Surveyor, Lloyd's Register  
*West Hartlepool*

*D.P. 16/6/87*