



TESTS OF BOILER STEEL.

Tests of *38* Steel *Plates* manufactured by *Heardale Iron Coal Co* of *Spennymoor*
for Boiler No. *16* to be constructed by *Central Marine Eng Co* of *West Hartlepool*
for

Date first visit *18.2.87* last visit _____ No. of visits *1*

The *Plates* specified in the accompanying copy of Advice Notes were rolled from
11 charges. The tensile test has been applied to *19* samples as set forth below,
and the temper and bending tests *to a sample from 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.	Brth.	Area.	Total.	Sq. Inch		
					Ins.	Ins.	Ins.	Tons.	Tons.		
	<i>Shell</i>	<i>2708</i>	<i>2708</i>		<i>1.06</i>	<i>1.67</i>	<i>1.60</i>	<i>43.46</i>	<i>27.1</i>	<i>26</i>	
	"	"	"		<i>1.08</i>	"	<i>1.63</i>	<i>44.03</i>	<i>27.0</i>	<i>29</i>	
	"	<i>2843</i>	<i>2843</i>		<i>1.11</i>	"	<i>1.676</i>	<i>42.81</i>	<i>25.5</i>	<i>27</i>	<i>Rejected by Board of Trade</i>
	"	"	"		<i>1.12</i>	"	<i>1.691</i>	<i>44.03</i>	<i>26.0</i>	<i>26</i>	
	"	<i>2850</i>	<i>2850</i>		<i>1.10</i>	"	<i>1.661</i>	<i>48.66</i>	<i>29.2</i>	<i>25</i>	
	"	"	"		<i>1.10</i>	"	<i>1.661</i>	<i>47.32</i>	<i>28.4</i>	<i>27</i>	
	"	<i>2846</i>	<i>2846</i>		<i>1.10</i>	"	<i>1.661</i>	<i>44.03</i>	<i>26.5</i>	<i>30</i>	<i>do:</i>
	"	"	"		<i>1.09</i>	"	<i>1.644</i>	<i>43.69</i>	<i>26.5</i>	<i>29</i>	
	<i>End Plate</i>	<i>2688</i>	<i>2688</i>		<i>.98</i>	<i>1.57</i>	<i>1.538</i>	<i>42.37</i>	<i>27.5</i>	<i>31</i>	
	"	"	"		<i>.97</i>	<i>1.55</i>	<i>1.503</i>	<i>41.93</i>	<i>27.8</i>	<i>16</i>	
	"	"	"		<i>.97</i>	<i>1.57</i>	<i>1.522</i>	<i>42.13</i>	<i>27.6</i>	<i>30</i>	<i>Retest.</i>
	"	<i>2700</i>	<i>2700</i>		<i>.67</i>	<i>1.50</i>	<i>1.005</i>	<i>27.67</i>	<i>27.5</i>	<i>29</i>	
	"	"	"		<i>.70</i>	<i>1.57</i>	<i>1.099</i>	<i>30.35</i>	<i>27.6</i>	<i>31</i>	
	<i>Back Tube plate</i>	<i>2847</i>	<i>2847</i>		<i>.95</i>	<i>1.57</i>	<i>1.434</i>	<i>39.28</i>	<i>27.3</i>	<i>24</i>	
	<i>Front " "</i>	<i>2847</i>	<i>2847</i>		<i>.97</i>	<i>1.51</i>	<i>1.464</i>	<i>41.05</i>	<i>28.0</i>	<i>29</i>	
	<i>Furnace bottom</i>	<i>2797</i>	<i>2797</i>		<i>.63</i>	"	<i>.951</i>	<i>26.33</i>	<i>27.6</i>	<i>28</i>	
	<i>Manhole C.P.</i>	<i>2638</i>	<i>2638</i>		<i>1.11</i>	"	<i>1.676</i>	<i>43.25</i>	<i>25.8</i>	<i>28</i>	<i>Rejected.</i>
	<i>Brackets</i>	<i>2517</i>	<i>2517</i>		<i>.68</i>	"	<i>1.026</i>	<i>27.89</i>	<i>27.1</i>	<i>28</i>	
	<i>End Plate</i>	<i>2857</i>	<i>2857</i>		<i>.88</i>	"	<i>1.328</i>	<i>36.60</i>	<i>27.5</i>	<i>27</i>	

D. J. 1/3/87

Fee £ : :
Expenses £ : :
£ : :

To be paid by

Wm. R. Austin
Surveyor, Lloyd's Register
West Hartlepool
Foundation