

No. *639*

(Received at London Office)

TESTS OF BOILER STEEL.



Tests of *1/2* Steel Bars manufactured by *Heardale Iron Works Co of Spennymoor* for Boiler No. *839* to be constructed by *T. Richardson Sons of Hartlepool* for

Date first visit *19.4.87* last visit _____ No. of visits *1*

The *Bars* specified in the accompanying copy of Advice Notes were rolled from *5* charges. The tensile test has been applied to *12* 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 pieces on bar with mark	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>1 3/16" R^o Stay</i>	<i>10</i>	<i>12</i>	<i>2226</i>	<i>1.18</i>	<i>deat</i>	<i>1.09</i>	<i>30.58</i>	<i>28.0</i>	<i>32</i>	
	"	"	<i>11</i>	"	"	"	<i>1.09</i>	<i>29.46</i>	<i>27.0</i>	<i>30</i>	
	"	"	<i>10</i>	"	<i>1.19</i>	"	<i>1.11</i>	<i>20.80</i>	<i>27.7</i>	<i>32</i>	
	<i>1/32"</i>	"	<i>21</i>	<i>2276</i>	<i>1.02</i>	"	<i>.817</i>	<i>23.66</i>	<i>28.9</i>	<i>30</i>	
	"	"	<i>19</i>	"	"	"	<i>.817</i>	<i>24.10</i>	<i>29.4</i>	<i>28</i>	
	<i>1"</i>	"	<i>13</i>	<i>2273</i>	"	"	<i>.817</i>	<i>22.09</i>	<i>27.0</i>	<i>31</i>	
	"	"	<i>14</i>	"	<i>1.01</i>	"	<i>.801</i>	<i>24.10</i>	<i>30.0</i>	<i>30</i>	
	<i>1/2"</i>	"	<i>3</i>	<i>1580</i>	<i>1.50</i>	"	<i>1.76</i>	<i>46.86</i>	<i>26.6</i>	<i>26</i>	
	"	"	<i>2</i>	"	<i>1.49</i>	"	<i>1.74</i>	<i>47.10</i>	<i>27.0</i>	<i>28</i>	
	"	"	<i>5</i>	"	"	"	<i>1.74</i>	<i>48.20</i>	<i>27.7</i>	<i>31</i>	
	"	"	<i>4</i>	"	<i>1.50</i>	"	<i>1.76</i>	<i>48.66</i>	<i>27.6</i>	<i>32</i>	
	<i>1 3/4"</i>	"	<i>4</i>	<i>2851</i>	<i>1.76</i>	"	<i>2.40</i>	<i>60.18</i>	<i>27.1</i>	<i>30</i>	

*109
23/4/87*

Fee £ : :

Expenses £ : :

£ : :

To be paid by _____

