



No. 21.

(Received in London Office,

TESTS OF BOILER STEEL.

Tests of 13 Steel plates manufactured by *Heardale Iron Coal Co* of *Spennymoor* for Boiler No. *✓* to be constructed by *Wiley Pirs* of *Stockton* for *Swan & Ankers 910 88 ship*.
 Date first visit *16th Oct.* last visit *16th Oct.* No. of Visits *1*

The plates specified in the accompanying copy of Advice Notes were rolled from *9* charges. The tensile test has been applied to *5* 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.	Brdth.	Area.	Total.	Sq. Inch.		
					Ins.	Ins.	Ins.	Tons.	Tons.		
1	<i>12.9 x 3 - 5 x 1/2</i>	<i>22</i>	<i>1</i>	<i>22</i>	<i>.5</i>	<i>3</i>	<i>1</i>	<i>28.12</i>	<i>28.12</i>	<i>20</i>	
2	" " "	<i>60</i>	<i>1</i>	<i>60</i>	<i>.57</i>	<i>2</i>	<i>1.02</i>	<i>24.23</i>	<i>26.7</i>	<i>21</i>	
3	<i>6.2 x 5 - 4 1/2 x 9/16</i>	<i>85</i>	<i>1</i>	<i>85</i>	<i>.378</i>	<i>2</i>	<i>10.16</i>	<i>29.46</i>	<i>29</i>	<i>24</i>	
4	" " "	<i>89</i>	<i>3</i>	<i>89C</i>	<i>.55</i>	<i>2</i>	<i>1.1</i>	<i>29.68</i>	<i>26.98</i>	<i>23</i>	
5	<i>6.7 x 4 - 6 1/2 x 9/8</i>	<i>38</i>	<i>2</i>	<i>38</i>	<i>.637</i>	<i>2</i>	<i>1.274</i>	<i>33.48</i>	<i>26.2</i>	<i>26</i>	

D.P.
22/10/84

Fee £ : :
 Expenses £ : :
 £ : :

James Dani
 Surveyor, Lloyd's Register,
W. Hartlepool

To be paid by *Manufacturers*