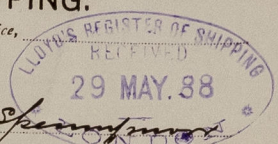


No. 1489

(Received at London Office,



TESTS OF BOILER STEEL.

Tests of 88 Steel stay manufactured by Wardale Iron & Coal Co. of Sunderland
for Boiler No. 1321 to be constructed by J. Dickenson of Sunderland
for

Date first visit May 16th 88 last visit ✓ No. of visits one

The stay Bars specified in the accompanying copy of Advice Notes were rolled from four charges. The tensile test has been applied to 9 samples as set forth below, and the temper and bending tests have proved 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.	%	
	<u>stay</u> <u>5/8</u>	<u>5432</u>	<u>36/18</u>	<u>20</u>	<u>1.50</u>	<u>dia.</u>	<u>1.76</u>	<u>51.78</u>	<u>29.40</u>	<u>28.00</u>	
	<u>---</u>	<u>---</u>		<u>2</u>	<u>1.49</u>	<u>---</u>	<u>1.74</u>	<u>50.88</u>	<u>29.20</u>	<u>26.00</u>	
	<u>---</u>	<u>5551</u>	<u>4/2</u>	<u>5</u>	<u>1.48</u>	<u>---</u>	<u>1.72</u>	<u>50.88</u>	<u>29.50</u>	<u>26.00</u>	
	<u>---</u> <u>1 1/4</u>	<u>5419</u>	<u>6</u>	<u>94</u>	<u>1.23</u>	<u>---</u>	<u>1.18</u>	<u>34.82</u>	<u>29.50</u>	<u>29.00</u>	
	<u>---</u> <u>1 1/2</u>	<u>5427</u>	<u>21</u>	<u>7</u>	<u>1.51</u>	<u>---</u>	<u>1.78</u>	<u>49.34</u>	<u>27.70</u>	<u>32.00</u>	
	<u>---</u> <u>1 3/4</u>	<u>---</u>		<u>8</u>	<u>1.51</u>	<u>---</u>	<u>1.78</u>	<u>50.44</u>	<u>28.30</u>	<u>31.00</u>	
	<u>---</u> <u>1 3/8</u>	<u>5432</u>	<u>6</u>	<u>6</u>	<u>1.37</u>	<u>---</u>	<u>1.47</u>	<u>44.64</u>	<u>30.30</u>	<u>31.00</u>	<u>✱</u>
	<u>---</u>	<u>5427</u>	<u>11</u>	<u>103</u>	<u>1.38</u>	<u>---</u>	<u>1.49</u>	<u>43.01</u>	<u>28.80</u>	<u>31.00</u>	
	<u>---</u> <u>2</u>	<u>5432</u>	<u>4/2</u>	<u>1</u>	<u>1.49</u>	<u>---</u>	<u>1.74</u>	<u>52.22</u>	<u>30.00</u>	<u>26.00</u>	

N.B. ✱. Selected additional cold & tempered ends and found same satisfactory.

D.P.
30/5/88

Fee £ : :
Expenses £ : :
£ : :

To be paid by

Henri Wilkenson
Surveyor, Lloyd's Register,
West: Hartlepool