

SS New Zealand  
SS Canada

Reports to 5992  
43

HuL399-0004



© 2019

Lloyd's Register  
Foundation

No. 293

(Received in London Office,

## TESTS OF BOILER STEEL.

Tests of <sup>129 plates</sup> ~~182~~ <sup>110 plates</sup> ~~184~~ <sup>110</sup> Steel manufactured by Messrs. Widdale Iron Works, Spennymoor,  
for Boiler No. 2 to be constructed by Messrs. C. J. Holmes of Hull,  
for ✓

Date first visit ✓ last visit ✓ No. of visits ✓

The <sup>110 plates</sup> ~~182~~ <sup>110</sup> ~~184~~ <sup>110</sup> specified in the accompanying copy of Advice Notes were rolled from 5 charges. The tensile test has been applied to 19 samples as set forth below, and the temper and bending tests found satisfactory

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>2 1/2" Rod</u>	<u>1587</u>		<u>1</u>	<u>2"</u>	<u>diam.</u>	<u>3.141</u>	<u>81.64</u>	<u>26.0</u>	<u>28.5</u>	
	" "	"		<u>2</u>	"	"	<u>3.141</u>	<u>79.46</u>	<u>25.3</u>	<u>29.5</u>	
	" "	"		<u>3</u>	"	"	<u>3.141</u>	<u>74.86</u>	<u>25.8</u>	<u>27.8</u>	} <u>Rejected 19 bars</u>
	<u>2 1/2"</u>	<u>1583</u>		<u>9</u>	<u>1.76</u>	"	<u>2.423</u>	<u>63.88</u>	<u>26.2</u>	<u>27.0</u>	
	<u>1 1/2"</u>	"		<u>2</u>	<u>1.36</u>	"	<u>1.483</u>	<u>39.06</u>	<u>26.8</u>	<u>32.0</u>	
	" "	"		<u>1</u>	<u>1.37</u>	"	<u>1.474</u>	<u>39.73</u>	<u>26.9</u>	<u>33.0</u>	
	" "	"		<u>3</u>	"	"	<u>1.474</u>	<u>39.06</u>	<u>26.5</u>	<u>31.0</u>	
	" "	"		<u>4</u>	"	"	<u>1.474</u>	<u>39.06</u>	<u>26.5</u>	<u>34.0</u>	
	<u>2 1/2"</u>	<u>1511</u>		<u>6</u>	<u>1.08</u>	"	<u>.916</u>	<u>25.22</u>	<u>27.5</u>	<u>30.5</u>	
	" "	<u>1519</u>		<u>7</u>	"	"	<u>.916</u>	<u>25.21</u>	<u>27.7</u>	<u>32.0</u>	
	" "	"		<u>8</u>	"	"	<u>.916</u>	<u>25.56</u>	<u>26.7</u>	<u>30.0</u>	} <u>made in pipes.</u>
	" "	"		<u>9</u>	"	"	<u>.916</u>	<u>25.09</u>	<u>27.3</u>	<u>31.0</u>	
	<u>2 1/2"</u>	<u>1624</u>		<u>1</u>	<u>1.75</u>	"	<u>2.405</u>	<u>64.50</u>	<u>26.8</u>	<u>24.5</u>	
	" "	"		<u>8</u>	<u>1.74</u>	"	<u>2.378</u>	<u>61.80</u>	<u>26.0</u>	<u>20.0</u>	
	<u>1 1/2"</u>	<u>1583</u>		<u>1</u>	<u>1.63</u>	"	<u>2.037</u>	<u>56.68</u>	<u>27.1</u>	<u>31.5</u>	
	<u>2 1/2"</u>	<u>1511</u>		-	<u>.73</u>	"	<u>.418</u>	<u>11.38</u>	<u>27.2</u>	<u>25.5</u>	
	<u>3 1/2"</u>	"		-	"	"	<u>.418</u>	<u>11.16</u>	<u>26.7</u>	<u>29.0</u>	
	" "	"		-	"	"	<u>.418</u>	<u>11.33</u>	<u>27.1</u>	<u>27.5</u>	
	" "	"		-	"	"	<u>.418</u>	<u>11.38</u>	<u>27.2</u>	<u>29.5</u>	

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by

Surveyor, Lloyd's Register,

H. H. Hartlepool

4/6/86