

TESTS OF BOILER STEEL.

Tests of 567 Steel bars manufactured by The Steel Co. of Scotland of Newton  
for Boiler No. 244 to be constructed by Messrs. J. H. Thomson of Clydeside.  
for the S.S. No 244 building by the same firm.  
Date first visit 7<sup>th</sup> Oct last visit 24<sup>th</sup> Oct No. of visits Constant attendance.

The specified in the accompanying copy of Advice Notes were rolled from  
charges. The tensile test has been applied to 45 samples as set forth below,  
and the temper and bending tests applied to piece cut off each  
bar 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.		
	Stay bar.	R.86		214	1.23	1.188	38.2	29.6	31.0		
	"	"		218	1.24	1.207	38.1	29.0	32.8		
	"	"		234	1.24	1.207	38.8	29.4	30.0		
	"	"		242	1.23	1.188	34.0	28.6	33.0		
	"	"		254	1.24	1.207	34.6	28.6	30.8		
	"	S.342		258	1.22	1.169	34.4	29.4	30.0		
	"	"		274	1.23	1.188	38.0	29.4	29.8		
	"	"		286	1.24	1.207	38.6	29.4	33.8		
	"	"		294	1.23	1.188	34.8	29.2	28.0		
	"	S.343		302	1.23	1.188	38.1	29.5	30.0		
	"	"		318	1.23	1.188	34.8	29.2	29.8		
	"	"		328	1.24	1.207	38.4	29.3	33.0		
	"	J.366		334	1.23	1.188	34.6	29.1	27.0		
	"	"		342	1.23	1.188	34.8	29.0	30.0		
	"	D.137		354	1.22	1.169	34.0	29.1	30.0		
	"	"		362	1.22	1.169	33.6	28.7	29.0		
	"	O.398		164	1.21	1.15	34.0	29.8	28.8		
	"	"		172	1.18	1.094	32.4	29.6	26.0		
	"	"		180	1.18	1.094	32.6	29.8	29.8		
	"	"		188	1.23	1.188	38.2	29.6	32.0		
	"	A.339		986	1.18	1.094	31.8	29.0	29.0		
	"	"		990	1.20	1.13	33.0	29.2	26.8		
	"	"		994	1.18	1.094	32.8	29.9	29.8		
	"	"		998	1.19	1.112	32.4	29.1	28.0		
	"	K.162		851	1.24	1.207	34.2	28.3	32.8		
	"	"		864	1.19	1.112	32.5	29.2	29.0		
	"	L.337		2	1.19	1.112	32.7	29.4	26.0		
	"	"		10	1.19	1.112	32.0	28.7	30.8		
	"	"		18	1.18	1.094	31.8	28.7	31.0		
	"	"		30	1.19	1.112	32.4	29.1	28.8		
	"	"		38	1.18	1.094	31.4	28.6	31.8		

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by

2021  
J. H. Johnstone  
Surveyor, Lloyd's Register,  
Glasgow 24/10/87  
D.P. 27/10/87

21/2210-0122 1/2  
CL5213-0122 1/2



TESTS OF BOILER STEEL.

Tests of Steel *Iron* manufactured by *The Steel Co. of Scotland of Newton*  
for Boiler No. *241* to be constructed by *Mr. J. E. Thomson of Clydeton*  
for *S.S. No. 241*.

Date first visit last visit No. of visits

The specified in the accompanying copy of Advice Notes were rolled from  
charges. The tensile test has been applied to samples as set forth below,  
and the temper and bending tests

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.	%	
	<i>Stay Bars</i>	<i>U.337</i>		<i>46</i>	<i>1.19</i>	<i>dim</i>	<i>1.112</i>	<i>31.9</i>	<i>28.7</i>	<i>29.0</i>	
	"	"		<i>58</i>	<i>1.19</i>	"	<i>1.112</i>	<i>32.3</i>	<i>29.0</i>	<i>30.0</i>	
	"	"		<i>66</i>	<i>1.19</i>	"	<i>1.112</i>	<i>32.0</i>	<i>28.7</i>	<i>28.5</i>	
	"	"		<i>74</i>	<i>1.17</i>	"	<i>1.075</i>	<i>31.6</i>	<i>29.4</i>	<i>27.0</i>	
	"	<i>U.338</i>		<i>86</i>	<i>1.19</i>	"	<i>1.112</i>	<i>32.3</i>	<i>29.0</i>	<i>29.5</i>	
	"	"		<i>94</i>	<i>1.18</i>	"	<i>1.094</i>	<i>31.6</i>	<i>28.8</i>	<i>26.0</i>	
	"	"		<i>102</i>	<i>1.18</i>	"	<i>1.094</i>	<i>31.9</i>	<i>29.1</i>	<i>28.0</i>	
	"	"		<i>110</i>	<i>1.19</i>	"	<i>1.112</i>	<i>31.5</i>	<i>28.3</i>	<i>28.5</i>	
	"	"		<i>120</i>	<i>1.18</i>	"	<i>1.094</i>	<i>31.9</i>	<i>29.1</i>	<i>28.5</i>	
	"	"		<i>128</i>	<i>1.19</i>	"	<i>1.112</i>	<i>32.5</i>	<i>29.2</i>	<i>29.0</i>	
	"	"		<i>136</i>	<i>1.19</i>	"	<i>1.112</i>	<i>32.3</i>	<i>29.0</i>	<i>27.5</i>	
	"	"		<i>140</i>	<i>1.18</i>	"	<i>1.094</i>	<i>31.7</i>	<i>28.9</i>	<i>27.0</i>	
	"	<i>P.267</i>		<i>386</i>	<i>1.18</i>	"	<i>1.094</i>	<i>32.1</i>	<i>29.3</i>	<i>27.0</i>	
	"	"		<i>394</i>	<i>1.18</i>	"	<i>1.094</i>	<i>32.0</i>	<i>29.2</i>	<i>27.0</i>	

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by

*Johnstone*  
Surveyor, Lloyd's Register,  
*Glasgow 24/10/87*