

S.S. "Gellivara" No. Report No. 21562

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

No. 6241

(Received at London Office)

TESTS OF BOILER STEEL.

Tests of 128 Steel plates manufactured by The Steel Co. of Scotland of Glasgow
for Boiler No. 272 to be constructed by The Wallsend Ship Co. of Newcastle
for the S.S. No. 103 building by Messrs Swan & Hunter

Date first visit 3/1/88 last visit 18/1/88 No. of visits 8

The _____ specified in the accompanying copy of Advice Notes were rolled from
_____ charges. The tensile test has been applied to 20 samples as set forth below,
and the temper and bending tests to a shearing off each plate with
satisfactory results.

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		
					Inch.	Inch.	Inch.	Tons.	Tons.	%	
1	Straps	H.333	9282	815	1.14	.929	26.5	28.5	28		
2		G.380	9328	84	1.15	.966	28.6	29.6	27		
3	Tube plate	H.405	23	.83	1.24	1.029	27.55	26.7	31		
4	"	J.3	61	.835	1.41	1.177	32.83	27.9	27.5		
5	Shell	J.44	71	1.11	1.23	1.365	37.9	27.7	26		
6	"	"	73	1.15	1.12	1.288	36.1	28.0	27		
7	End plate	O.7	257	.91	1.02	.928	26.4	28.4	20		
8	Shell	A.6	225	1.14	1.13	1.288	38.1	29.5	24		Cross piece
9	"	M.10	232	1.15	1.3	1.495	44.3	29.6	28		
10	Cr. Ch. Plating	L.7	9265	.77	1.4	1.078	50.35	28.1	25		
11	" Sides	H.7	8488	.625	"	.875	24.45	27.9	25		
12	"	G.7	5497	.61	1.32	.805	22.7	28.2	26		
13	Girders	F.5	9335	.73	1.12	.818	22.55	27.5	28.5		
14	Straps	F.7	5714	.74	1.27	.94	26.3	27.9	24		
15	Girders	A.44	9114	.775	1.01	.783	20.5	26.1	28		
16	End plate	J.7	124	.95	1.15	1.092	31.15	28.5	24.5		
17	Shell	H.4	89	1.15	1.06	1.219	34.7	28.4	26		
18	"	G.3	92	1.15	1.24	1.426	38.55	27.0	28		
19	"	"	107	1.14	1.1	1.254	35.25	28.1	26.5		Cross piece
20	"	D.1	117	1.12	1.22	1.366	40.1	29.3	26.5		

21.1.88

Fee £ : :

Expenses £ : :

£ : :

To be paid by



Surveyor, Lloyd's Register.

Lloyd's Register
Founded 1780

TESTS OF BOILER STEEL

No. of Steel
for Boiler 703
to be constructed by
of
The
specification of the material and copy of the test results are not furnished from
The test results have been applied to
and the temper and bending tests

No.	Temper	Yield Point	Tensile Strength	Elongation in 2 in.	Reduction of Area	Transverse Rupture	Charpy Impact	Notch Toughness	Remarks
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703 Hunter & Co
© 272

British Iron & Steel Institute

To be paid by

Fee
Expenses

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