

Lloyd's Register of British and Foreign Shipping.

(Report on Vessel No. _____ Port _____)

No. 329

SHIP FORGINGS ^{and} OR CASTINGS.

I have to report that the undermentioned ~~Iron~~ ^{and} Steel Forgings ~~or~~ Castings, manufactured by Barrow Hematite Steel Co. Ltd of Barrow for the Vessel C, being built by Dixon Harland & Wolff of Belfast have been inspected by me as set forth below, and found to be, so far as can be seen, Sound and Satisfactory

The words FORGINGS or CASTINGS, IRON or STEEL, should be struck out as may be required.



Castings
Barrow in Furness

	STERN FRAME.	RUDDER FRAME.	STEM.
Material*	Siemens Martin Steel	^{Stock} Siemens Martin Steel	Siemens Martin Steel
How made	Cast & annealed	Rudder cast & annealed	Cast & annealed
Dimensions		Stock forged	
Progress on Inspection	Cast. Machining and	Cast. Machining and	Cast. Machining and
Dates when Inspected	Finished 9 th June to 17 th Aug 97	Finished 25 th Sept 4 th Mar 98	Finished April to 29 th April 97

SKETCHES OF FRAMES SHOWING POSITION AND DESCRIPTION OF WELDS OF FORGINGS, OR PARTICULARS OF TESTS APPLIED TO CASTINGS.

Purpose	Area		Ultimate Strengths		Extension in 8 in	Contraction of area	Cold Bend
	in ²	in ²	Total	Per square			
Stem frame	1.01	.801	25	31.2	21%	42%	150°
Rudder	1.01	.801	24.6	30.7	20%	31%	150°
Forefoot	1.01	.801	24.5	30.6	20%	30.6%	150°

Stem frame raised to an angle of 45° Rudder to a height of 8 feet - and forefoot to a height of 12 feet and dropped, then being hammered and found satisfactory.



Howland's Wharfs Ltd

"Manhattan"

Stem Frame Rudders

Stems & Stern Hoopings
and Bittings

23rd December 1898



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Lloyd's Register
Foundation

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