

Lloyd's Register of British and Foreign Shipping.

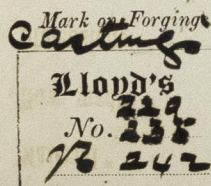
(Report on Vessel No. _____ Port _____)

No. 229

SHIP FORGINGS ^{and} ~~OR~~ CASTINGS.

I have to report that the undermentioned ~~Iron~~ ^{and} Steel Forgings ~~and~~ Castings, manufactured by Barrow Hematite Steel Co. Ltd. of Barrow for the Vessel C, being built by Jesse 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

Mark on Forging



Cast as the
Barrow in Furnace

| | STERN FRAME. | RUDDER FRAME. | STEM. |
|------------------------|---|--|--|
| Material* | <u>Siemens-Martin Steel</u> | <u>Stock</u> <u>Siemens-Martin Steel</u> | <u>Siemens-Martin Steel</u> |
| How made | <u>Cast & annealed</u> | <u>Rudder cast & annealed</u> | <u>Cast & annealed</u> |
| Dimensions | | <u>Stock forged</u> | |
| Progress on Inspection | <u>Cast-machining and</u> | <u>Cast-machining and</u> | <u>Cast-machining and</u> |
| Dates when Inspected | <u>Finished</u> <u>9th June to 17th Aug 97</u> | <u>Finished</u> <u>25th Sept 4th Mar 98</u> | <u>Finished</u> <u>April to 29th April 97</u> |

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

| Purpose | Wt in lbs | Area in ins | Ultimate Strengths | Extension | Contraction | Cold Bend |
|------------|-----------|-------------|--------------------|-----------|-------------|------------|
| 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 Wharf No 1st
"Manhattan"
Stem Frame Rudder
Frame & Stem Hoisting
and Laidings
23rd December 1898



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Lloyd's Register
Foundation

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