

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

Received at Belfast Office, Decr 6<sup>th</sup> 1890

# Lloyd's Register of British and Foreign Shipping.

(Report on Vessel No. 245 Port Belfast)

## No. 68 SHIP FORGINGS OR CASTINGS.

I have to report that the undermentioned ~~Iron or Steel Forgings or~~ Castings, manufactured by Messrs The Barrow Haematite Steel Co of Barrow-in-Furness for the Vessel No. 245, being built by Messrs Harland & Wolff of Belfast have been inspected by me as set forth below, and found to be, so far as can be seen, Sound

Mark on <sup>castings</sup> Forgings.

Lloyd's  
No. 68  
J.D. 11-90

J. Dykes  
Barrow.

### QUADRANT TILLER

|                          | STERN FRAME.  | RUDDER FRAME.                        | STEM. |
|--------------------------|---|--------------------------------------|-------|
| Material* . . . .        | <u>Siemens Martin Steel</u>   | <u>Siemens Martin Steel</u>          |       |
| How made . . . .         | <u>Cast &amp; Annealed</u>  | <u>Cast &amp; Annealed</u>           |       |
| Dimensions . . . .       |   |                                      |       |
| Progress on Inspection . | <u>Cast, Dressing &amp; Finished</u>  | <u>Cast, Dressing &amp; Finished</u> |       |
| Dates when Inspected     | { <u>Nov 4<sup>th</sup>, 11<sup>th</sup>, 26<sup>th</sup> and Decr 1<sup>st</sup> - 1890.</u> |                                      |       |

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

| PURPOSE  | DIAM<br>INS | AREA<br>INS | ULTIMATE STRESS |                 | EX IN<br>8 INS % | CONTRACTION<br>OF<br>AREA | COLD<br>BENDS |
|----------|-------------|-------------|-----------------|-----------------|------------------|---------------------------|---------------|
|          |             |             | TOTAL<br>TOLDS  | 50 INS<br>TOLDS |                  |                           |               |
| QUADRANT | 1.14        | 1.02        | 32.68           | 32.0            | 23.0             | 41.8%                     | 180° Good     |
| TILLER   | 1.14        | 1.02        | 30.0            | 29.4            | 14.0             | 12.0%                     | 180° Good     |

Quadrant & Tiller raised to a height of 11 ft. then dropped on hard ground. Plung & hammered all over and found as far as can be seen Sound.

\* If of Iron, state whether scrap or puddled Iron.



245

Castings on  
Quadrant & Pillar.

Bel 6 Dec 1890.

"Pindar"  
Belfast Report  
N<sup>o</sup> 4019



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