

# Lloyd's Register of Shipping.

 Report on Machinery, No. 52250 Port Hull

160

No. 38377

## ENGINE FORGINGS OR CASTINGS.

I have to report that the Forgings ~~or Castings~~, as herein described, manufactured by The Rotherham Forge & Rolling Mills Co. Ltd., of ROTHERHAM Order of Messrs. C. D. Holmes & Co. Ltd., for the Engines No. M.1282 being constructed by of HULL for the Ship No. , being built by of

have been inspected by me as set forth below, and found to be, so far as can be seen, sound and free from defects. These have been despatched to

Mark on Forgings ~~or Castings~~.
 Lloyd's  
see  
No.s below  
F.W.

*Fred Wood*

SHEFFIELD. 27-5-43

|   | <del>CRANK SHAFT.</del>    | <del>THRUST SHAFT.</del> 2 | INTERMEDIATE SHAFTS |                   | <del>TUBE SHAFT.</del> |
|---|----------------------------|----------------------------|---------------------|-------------------|------------------------|
|   | 3 Conn. Rods<br>858        | 1 Journal<br>850           | 848                 | 849               | 844                    |
|   | <del>PLYWHEEL SHAFT.</del> | 1659.                      | 1659.               | 1656.             | 1 SCREW SHAFT.         |
| Material* ...                           | Siemens                    |                            | Steel               |                   |                        |
| How made ...                            | Forged                     |                            |                     |                   |                        |
| If Annealed ...                         | Heat                       |                            | Treated             |                   |                        |
| Forgings {<br>Dimensions<br>Weight      |                            |                            |                     |                   |                        |
| Weight, Castings ...                    |                            |                            |                     |                   |                        |
| gress on<br>Inspection...               | Rough                      |                            | Machined            |                   |                        |
| <u>TEST RESULTS.</u>                    |                            |                            |                     |                   |                        |
| Ultimate Tensile.<br>Tons per sq. in... | 32.0                       | 29.9                       | 29.5                | 29.6              | 29.1                   |
| Yield Point.<br>Tons per sq. in...      | 19.4                       | 18.0                       | 16.2                | 15.0              | 20.3                   |
| Extension per cent.<br>on 3 inches...   | 30.0                       | 34.0                       | 32.5                | 33.5              | 34.0                   |
| Red. of Area %                          | 47.16 <sup>o</sup>         | 50.7 <sup>o</sup>          | 54.2 <sup>o</sup>   | 54.2 <sup>o</sup> | 66.76 <sup>o</sup>     |
| Cold Bending Test...                    | 180 <sup>o</sup>           | 180 <sup>o</sup>           | 180 <sup>o</sup>    | 180 <sup>o</sup>  | 180 <sup>o</sup>       |
| Dates when Inspected                    | 6 - 5 - 43                 |                            | to                  |                   | 12 - 5 - 43            |

### PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

 End  
finishes  
18-9-43.

 End  
finishes  
15-9-43.

 End  
finishes  
20-7-43.

 End  
finishes  
6-8-43.  
23-8-43.

 Rejected  
Sandblasting  
6-7-43

Fee (if any chargeable)

Monthly Account

To be paid at

SHEFFIELD.

\* If of wrought iron, state whether piled bars or scrap. If of steel, state whether made by the Open Hearth process.