

For the information of Surveyors and the Committee only.

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## Lloyd's Register of Shipping.

(Report on Machinery, No. \_\_\_\_\_ Port \_\_\_\_\_)

## No. 21446. ENGINE FORGINGS OR CASTINGS.

I have to report that the ~~Forgings or Castings~~ as herein described, manufactured by The Rotherham Forge & R. Hulls Ltd. of Rotherham for the Engines No. 616 being constructed by Messrs Amos & Smith Ltd. 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 \_\_\_\_\_

on Forgings or Castings.

R. M. Hawcett

Sheffield

28/6/30.

Lloyd's

No. 3891

R.W.F. 24/6/30

|                                | CRANK SHAFT.                          | THRUST SHAFT.                       | INTERMEDIATE SHAFT.                 | TUBE SHAFT.                           |
|--------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|
|                                | 1 Journal                             |                                     |                                     | SCREW SHAFT.                          |
|                                | FLYWHEEL SHAFT.                       |                                     |                                     |                                       |
| Material* ...                  | Siemens                               |                                     | Steel                               |                                       |
| made ...                       |                                       | Forged                              |                                     |                                       |
| annealed ...                   |                                       | Yes                                 |                                     |                                       |
| Dimensions, Forgings           | Dia 7 <sup>13</sup> / <sub>16</sub> " | Dia 7 <sup>3</sup> / <sub>4</sub> " | Dia 7 <sup>1</sup> / <sub>2</sub> " | Dia 8 <sup>13</sup> / <sub>16</sub> " |
| Weight, Castings               |                                       |                                     |                                     |                                       |
| Process on inspection }        | Black                                 |                                     | Forgings                            |                                       |
| Tests on Standard Test Pieces. | 582                                   | 580                                 | 585                                 | 581                                   |
| Stille Test—                   | 31.0                                  | 29.2                                | 29.8                                | 32.0                                  |
| Tons per square inch           | 35.0                                  | 35.5                                | 34.0                                | 30.0                                  |
| Extension per cent             | 188°                                  | 188°                                | 188°                                | 188°                                  |
| Bending Test—                  |                                       |                                     |                                     |                                       |
| Angle before fracture          |                                       |                                     |                                     |                                       |
| Dates when Inspected           | 19/6/30                               | to                                  | 24/6/30                             |                                       |

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

This intermediate shaft was rejected for surface defects. Please see Sheffield Forging Report No 21601.

Fee (if any chargeable) £ —

To be paid at —

C. Moffatt

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