

22 JAN 1937

## Lloyd's Register of Shipping.

(Report on Machinery, No. 94702 Port )

## No. F.2257 ENGINE FORGINGS OR CASTINGS.

I have to report that the Forgings or Castings, as herein described, manufactured by Messrs. Mitchell Shackleton & Co. Ltd. of Manchester. for the Engines No. 45300 being constructed by Messrs. National Gas & Oil Engine Co. of Ashton U Lyne. for the Ship No. 35, being built by Messrs. Clelands (Successors) Ltd. 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 Installed in Engine No 45300

Mark on Forgings or Castings.

Lloyd's

No. 7275

M.A.B. 9.12.36.

Manchester.  
9.12.36.

|                                | CRANK SHAFT.  | THRUST SHAFT.            | INTERMEDIATE SHAFT.   | TUBE SHAFT.  |
|--------------------------------|---|--------------------------|---|--------------|
|                                | 1 - 3 D<br>No 7275<br>FLYWHEEL SHAFT.                           |                          | 3 Conn. Rod Stampings made by<br>Smethwick Stamping Co. Tests taken<br>by Manchester Surveyors. | SCREW SHAFT. |
| Material*                      | O.H. Ingot Steel  | O.H. Ingot Steel         |   |              |
| How made                       | Forged  | Stampings.               |   |              |
| If Annealed...                 | Yes   | Yes                      |   |              |
| Dimensions                     | 2.3/8" Ps and Js.   |                          |   |              |
| Weight                         | 3 qrs 4 lbs   |                          |   |              |
| Weight, Castings               |   |                          |   |              |
| Progress on Inspection         | Finished Machined   | Finished Machined.       |   |              |
| Tests on Standard Test Pieces. | 7275  | Stamped J.W.L. 19.12.36. |   |              |
| Tensile Test—                  |   |                          |   |              |
| Tons per square inch           | 36.4  | 34.4                     |   |              |
| Yield                          | 21.2  | 22.4                     |   |              |
| Extension per cent             | 29  | 33.0                     |   |              |
| Cold Bending Test—             |   |                          |   |              |
| Angle before fracture          | 180°  | 180° WF                  |   |              |
| Dates when Inspected           | 20.11.36. 23.11.36. 9.12.36. 24.5.36. to 23.10.36. and 19.12.36 |                          |   |              |

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Fee (if any chargeable)

5/-

To be paid at

Manchester.

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

W415-0178