

Sept. 7.

For the information of Surveyors and the Committee only.

Received at

Office,

19

Lloyd's Register of Shipping.

(Report on Machinery, No.

Port

Manchester.

No. E3037. ENGINE FORGINGS ~~OR CASTINGS~~.

I have to report that the Forgings ~~or Castings~~, as herein described, manufactured by Mitchell, Shackleton & Co. of Manchester for the Engines ^{TYPE} No. 355 being constructed by L. Gardner & Sons Ltd. repaired of Manchester for the ~~Ship~~ ^{M.V.} "MARA MARION" being built by Messrs. Merrin's Ltd. of Bowes, Isle of Wight. 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 Gardner's Works.

J. F. Campbell for self & J. Mc L. Reid.

Manchester 23-7-29.

Lloyd's

No. 1461, 1462
16-7-29 J.R.

| | CRANK SHAFT. 1. CONNECTING ROD N° 1461. FLYWHEEL SHAFT. | THRUST SHAFT. 2. CONNECTING RODS N° 1462. | INTERMEDIATE SHAFT. | TUBE SHAFT. SCREW SHAFT. |
|--|--|--|--------------------------------|---|
| Material* ... | <u>O.H. Ingots Steel</u> | | | |
| How made ... | <u>Forged</u> | | | |
| Annealed ... | <u>Yes</u> | | | |
| Dimensions, Forgings | <u>2 3/16" diameter</u> | | | |
| Weight, Castings ... | <u>Rough & finished</u> | | | |
| Progress on { Inspection } | | | | |
| Tests on Standard Test Pieces. | | | | |
| Stress Test— Tons per square inch ... | <u>28.4</u> | <u>30.0</u> | | |
| Extension per cent ... | <u>35.0</u> | <u>34.0</u> | | |
| Bending Test— Angle before fracture ... | <u>180°</u> | <u>180°</u> | | |
| When Inspected | <u>25-1-29 to 16-7-29</u> | | | |

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Charge (if any chargeable) £ Charged.

To be paid at

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

No. 27.

Starting Air Receivers, No. 2. 1836/8

Total cubic capacity

8 CUB. FT.

Internal diameter

10

Seamless, lap welded or riveted longitudinal joint

SEAMLESS

Material

Mild Steel

Range of tensile strength

28/32 tons

Working pressure

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Lloyd's Register

W315-0081

FW315-0003