

Lloyd's Register of Shipping.

(Report on Machinery No. 60730Port GLASGOWMiddlesexNo. 31817 ENGINE ~~FORGINGS~~ OR CASTINGS.

I have to report that the ~~Forgings or Castings~~, as herein described, manufactured by Messrs. T. Firth & J. Brown Ltd. of Sheffield for the ^{order} ~~Engines~~ No. 5099/38 being constructed by Tessa J. Brown & Co. Ltd. of Clydebank for the Ship ^{SS} "MIDDLESEX", 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. below
C.S.P. 1/7/38

Sheffield 5/4/38.

| | CRANK SHAFT. | THRUST SHAFT. | INTERMEDIATE SHAFT. | TUBE SHAFT. |
|---|---|--------------------------------|---------------------------------|--|
| | 1 Distance Piece S.8251 FLYWHEEL SHAFT. | 2 Sleeves S.8252 | 1 L.P. Reaction Wheel S.8288 | 1 H.P. Astern Impulse Wheel S.8289. SCREW SHAFT. |
| Material* ... | Siemens | | Steel | |
| How made ... | Forged | | | |
| If Heat Treated ... | Yes | | | |
| Dimensions, Forgings | 2 1/2" ϕ X 15 5/8" ϕ | 2 1/4" ϕ X 10 3/4" ϕ | 3' 8 1/4" | 3' 9 7/8" |
| Weight, Castings | 3-0-21 | 14-0-10 | 10-3-21 | 11-3-21 |
| Progress on Inspection | Rough | | Machined | |
| Tests on Standard Test Pieces. | | | | |
| Tensile Test— Tons per square inch | 30.2 | 36.6 | 35.8 | 37.0 |
| Extension per cent 3" | 32.0 | 26.0 | 29.5 | 27.0 |
| Cold Bending Test— Angle before fracture | 180° | 180° | 180° | 180° |
| Dates when Inspected | 15/6/38 | | to | 1/7/38 |

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Fee (if any chargeable) £ 2 - 10 - 0 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.