Rpt. 7. For the information of Surveyors and the Committee only.

Received at ..... Office, ... 19

Lloyd's Register of Shipping.

(Report on Machinery, No. 6030 Port GLASGOW)

Middlesex

No. 31749 ENGINE FORGINGS ~~OR CASTINGS~~.

The words FORGINGS or CASTINGS should be struck out as may be required.

I have to report that the Forgings ~~or Castings~~, as herein described, manufactured by Messrs. T. Firth & J. Brown Ltd. of Sheffield for the ~~Engines~~ Order No. S.099/38 ~~being constructed by~~ Messrs. J. Brown & Co. Ltd. of Clydebank. for the Ship SS. ~~No.~~ "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 No. see below C.S.P. 8/7/38

Chas. S. Porter

Sheffield 12/7/38

	~~CRANK SHAFT~~. 4 Pinion S.8322 ~~FLYWHEEL SHAFT~~.	~~THRUST SHAFT~~. Sleeves S.8323	~~INTERMEDIATE SHAFT~~. S.8324	S.8325	~~TUBE SHAFT~~. 1 H.P. Rotor Spindle. S.8249 SCREW SHAFT.
Material*	Siemens Nickel Steel Forged				Siemens Steel
How made					
If Heat Treated	Yes				
Dimensions, Forgings	2'0 7/8" D	X	18 1/4" D		7 3/4"
Weight, Castings	12-3-2	12-3-6	12-2-17	12-2-24	3-19-0-0
Progress on Inspection	Rough				Machined
Tests on Standard Test Pieces.					B T
Tensile Test— Tons per square inch	44.4	44.4	42.8	45.2	37.8 36.8
Yield	32.8	34.8	32.0	35.6	
Extension per cent 2"	26.0	24.5	27.5	25.0	26.0 26.0
Cold Bending Test— Angle before fracture	180°	180°	180°	180°	180° 180°
Dates when Inspected	24/6/38	to		8/7/38	14/6/38 to 8/7/38.

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:-

No. 8322 fitted 2 H.P. aft
8323 " " "
8324 " " "
8325 " " "
S.8249 "Bore" examined" and found satisfactory.

8249 Fitted H.P.

LLOYD'S REGISTER OF SHIPPING 16 JUL 1938 GLASGOW

Fee (if any chargeable) £ 4-2-6 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.

5m.3.35.

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