

# Lloyd's Register of Shipping.

(Report on Machinery No. 60730 Port GLASGOW)

## No. 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 <sup>order</sup> ~~Engines No. 5099/38~~ being constructed by Messrs. J. Brown & Co. Ltd. of Clydebank for the Ship <sup>SS</sup> 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  
see  
No. below  
C.S.P. 1/7/38

Sheffield 5/4/38.

	CRANK SHAFT.	THRUST SHAFT.	INTERMEDIATE SHAFT.	TUBE SHAFT.
	1 <u>Distalce Piece</u> S.8251	2 <u>Sleeves</u> S.8252	1 <u>L.P. Reaction wheel</u> S.8288	1 <u>H.P. Astern Impulse wheel</u> S.8289.
	FLYWHEEL SHAFT.	S.8252	S.8253	SCREW SHAFT
Material * ...	<u>Siemens</u>		<u>Steel</u>	
How made ...	<u>Forged</u>			
If Heat Treated ...	<u>Yes</u>			
Dimensions, Forgings	<u>2 1/2" x 15 5/8" x 1 1/2"</u>	<u>2 1/4" x 10 3/4" x 1 1/2"</u>	<u>3' 8 1/4"</u>	<u>3' 9 7/8"</u>
Weight, Castings	<u>3-0-21</u>	<u>14-0-10</u>	<u>10-3-21</u>	<u>11-3-21</u>
Progress on Inspection	<u>Rough</u>		<u>Machined</u>	
Tests on Standard Test Pieces.				
Tensile Test— Tons per square inch	<u>30.2</u>	<u>36.6</u>	<u>35.8</u>	<u>39.6</u>
Extension per cent 3"	<u>32.0</u>	<u>26.0</u>	<u>29.5</u>	<u>29.0</u>
Cold Bending Test— Angle before fracture	<u>180°</u>	<u>180°</u>	<u>180°</u>	<u>180°</u>
Dates when Inspected	<u>15/6/38</u>		<u>to</u>	<u>1/7/38</u>

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.