

Lloyd's Register of Shipping.

(Report on Machinery, No. 60730 Port GLASGOW
Middlesbrough)

No. 3077 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 ^{order} Engines No. 50.99/38 being constructed by Messrs. J. Brown & Co. Ltd. of Clydebank for the Ship 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. S.8494
D.R.O. 26/8/38

✓ for D.Walburn & Co. Exporters
1 1st Reduction Pinion Primary Sheffield 16/9/38

	CRANK SHAFT.	THRUST SHAFT.	INTERMEDIATE SHAFT.	TUBE SHAFT.
	FLYWHEEL SHAFT.			SCREW SHAFT.
Material	<u>Steel</u>		<u>Steel</u>	
How made	<u>Forged</u>			
If Annealed	<u>Heat</u>		<u>Treated</u>	
Dimensions	<u>4 1/2"</u>			
Weight	<u>11-1-12</u>			
Weight, Castings				
Progress on Inspection	<u>Rough</u>		<u>Machined</u>	
Tests on Standard Test Pieces.	<u>BT</u>	<u>BT</u>	<u>TT</u>	<u>TL</u>
Tensile Test—				
Tons per square inch	<u>46.0</u>	<u>46.4</u>	<u>46.6</u>	<u>45.6</u>
Yield	<u>35.4</u>	<u>35.2</u>	<u>36.4</u>	<u>36.0</u>
Extension per cent	<u>24.5</u>	<u>23.5</u>	<u>23.0</u>	<u>24.0</u>
Cold Bending Test—				
Angle before fracture	<u>180°</u>	<u>180°</u>	<u>180°</u>	<u>180°</u>
Dates when Inspected	<u>22/4/38</u>	<u>To</u>	<u>To</u>	<u>26/8/38</u>

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

N.8497 Firth & Co. L.P.

Fee (if any chargeable) £1-1-0 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.