

Lloyd's Register of Shipping.

(Report on Machinery, No. 60730)

Port

Middlesex **GLASGOW**

No. 31876 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. SD99/38 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. 60730D.R.W. 21/8/38

2 1st Reduction Pinions Primary Sheffield 16/9/38.

For D.R. Wallham self & Co. Porters

	CRANK SHAFT.			THRUST SHAFT.		INTERMEDIATE SHAFT.		TUBE SHAFT.	
	<u>5.8495</u>					<u>5.8496</u>			
	FLYWHEEL SHAFT.							SCREW SHAFT.	
Material*	<u>Steel</u>			<u>Nickel</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>1-2-2-24</u>					
Weight, Castings									
Progress on Inspection	<u>Rough</u>					<u>Finished</u>			
Tests on Standard Test Pieces.	<u>BL</u>	<u>BT</u>	<u>TT</u>	<u>TL</u>	<u>BL</u>	<u>BT</u>	<u>TT</u>	<u>TL</u>	
Tensile Test—									
Tons per square inch	<u>45.2</u>	<u>46.0</u>	<u>46.0</u>	<u>46.0</u>	<u>46.0</u>	<u>46.4</u>	<u>46.4</u>	<u>46.0</u>	
Yield	<u>35.1</u>	<u>35.2</u>	<u>35.4</u>	<u>35.8</u>	<u>36.4</u>	<u>36.4</u>	<u>36.4</u>	<u>35.6</u>	
Extension per cent	<u>24.0</u>	<u>23.0</u>	<u>23.0</u>	<u>23.0</u>	<u>24.0</u>	<u>24.5</u>	<u>21.0</u>	<u>25.5</u>	
Cold Bending Test—									
Angle before fracture	<u>180°</u>	<u>180°</u>	<u>180°</u>	<u>180°</u>	<u>180°</u>	<u>180°</u>	<u>180°</u>	<u>180°</u>	
Dates when Inspected	<u>22/7/38</u>			<u>5</u>		<u>24/8/38</u>			

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

3rd 63,48,43 2. P
N° 8495 Firth & Co. H. P.
N° 8496 " " "

63,48,43 43,48,47



Fee (if any chargeable) £2 - 2 - 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.