

Lloyd's Register of Shipping.

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

No. 31909 ENGINE FORGINGS OR CASTINGS.

I have to report that the Forgings or Castings, as herein described, manufactured by THOS. FIRTH & JOHN BROWN LTD. of SHEFFIELD.

for the ^{Order} ~~Engines No. 8099/38~~ being constructed by Messrs. J. Brown & Co. Ltd. of Chyd Bank for the Ship ^{S.S.} ~~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 _____

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

Mark on Forgings or Castings

Lloyd's
No. 58360
C.S.P. 20/9/38

Arthur G. Ballum

SHEFFIELD. 3/10/38.

1 L.P. Rotor Spindle

	CRANK SHAFT.	THRUST SHAFT.	INTERMEDIATE SHAFT.	TUBE SHAFT.
	FLYWHEEL SHAFT.			SCREW SHAFT.
Material*	S. M. STEEL.			
How made	FORGED.			
If Annealed...	HEAT TREATED.			
Dimensions	4 3/4" dia.			
Weight	1 - 19 - 2 - 27			
Weight, Castings				
Progress on Inspection	Rough	Machined		
Tests on Standard Test Pieces.	3	T		
Tensile Test—				
Tons per square inch	36.2	38.6		
Extension per cent 3"	27.0	25.5		
Cold Bending Test—				
Angle before fracture	180°	180°		
Dates when Inspected	29/6/38 To 20/9/38.			



PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

The one was examined and found satisfactory.
8360 Fitted to R.P.

Fee (if any chargeable) £1-10-0 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.