

Lloyd's Register of Shipping.

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

No. 31876 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. 5099/38 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. 31876
D.R.W. 21/8/38

For DR. Waltham self & Cl. Porter

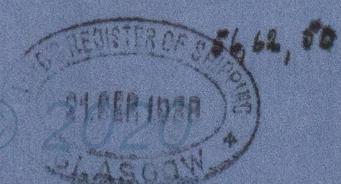
2 1st Reduction Pinions Primary Sheffield 16/9/38.

	CRANK SHAFT.		THRUFT SHAFT.		INTERMEDIATE SHAFT.		TUBE SHAFT.	
	58495				58496			
	FLYWHEEL SHAFT.						SCREW SHAFT.	
Material*	Suenis		Nickel		steel			
How made			Forged					
If Annealed...	Heat				Treated			
Dimensions			4 1/2"					
Weight			1-2-2-24					
Weight, Castings								
Progress on Inspection	Rough				Finished			
Tests on Standard Test Pieces.	BL	BT	TT	TL	BL	BT	TT	TL
Tensile Test—								
Tons per square inch	45.2	46.0	46.0	45.0	46.0	46.4	46.4	46.0
yield	35.1	35.2	35.6	34.8	34.8	36.4	36.4	35.6
Extension per cent	24.0	23.0	23.0	23.5	24.0	24.5	21.0	25.5
Cold Bending Test—								
Angle before fracture	180°	180°	180°	180°	180°	180°	180°	180°
Dates when Inspected	22/9/38				24/8/38			

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

3rd
N° 8495 Firth & Brown
N° 8496 "

6344, 47, 43, 40, 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.