

# REPORT ON OIL ENGINE MACHINERY.

No 10,530.

30 MAY 1941

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 To in Survey held at KEIGHLEY. Date, First Survey 31 JAN. 1941. Last Survey 12<sup>th</sup> MAY 1941  
 eg. Book. " CAMROUX I Number of Visits 4  
 on the Single Screw vessel Tons <sup>Gross</sup>            <sub>Net</sub>             
 Built at GAINSBOROUGH. By whom built J.S. WATSON (GAINSBOROUGH) LD. Yard No. 1621 When built             
 Engines made at KEIGHLEY. By whom made H. WIDDOP & CO. LD Engine No. 4023 When made 1941  
 Monkey Boilers made at            By whom made            Boiler No. - When made -  
 Brake Horse Power 300. Owners            Port belonging to             
 Nom. Horse Power as per Rule 138.140 Is Refrigerating Machinery fitted for cargo purposes - Is Electric Light fitted YES.  
 Trade for which vessel is intended COASTING VESSEL.

**MAIN ENGINES, &c.**—Type of Engines VERTICAL SOLID INJECTION. 2 or 4 stroke cycle 2 Single or double acting SINGLE.  
 Maximum pressure in cylinders 650 LBS. Diameter of cylinders 11.5" Length of stroke 13.5" No. of cylinders 6. No. of cranks 6.  
 Mean Indicated Pressure 53.5 LBS/sq. in. Is there a bearing between each crank YES.  
 Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 16.75"  
 Revolutions per minute 330. Flywheel dia. 36.75" Weight 15.6 CENTS. Means of ignition COMPRESSION. Kind of fuel used HEAVY OIL.  
 Crankshaft, Solid forged dia. of journals as per Rule APPROVED. Crank pin dia. 6.75" Crank Webs Mid. length breadth 9" Thickness parallel to axis SOLID.  
All built as fitted 6.75" Mid. length thickness 3.75" shrunk Thickness around eyehole             
 Flywheel Shaft, diameter as per Rule            Intermediate Shafts, diameter as per Rule APPROVED. Thrust Shaft, diameter at collars as per Rule APPROVED.  
 as fitted            as fitted 4" as fitted 4.75"  
 Main Shaft, diameter as per Rule            Screw Shaft, diameter as per Rule APPROVED. Is the            shaft fitted with a continuous liner             
 as fitted            as fitted 4 5/8" as fitted             
 Bronze Liners, thickness in way of bushes as per Rule            Thickness between bushes as per Rule            Is the after end of the liner made watertight in the  
 as fitted            as fitted             
 Propeller boss            If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner             
 If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive             
 If two liners are fitted, is the shaft lapped or protected between the liners            Is an approved Oil Gland or other appliance fitted at the after end of the tube             
 Shaft YES. If so, state type ROTATING RUBBER SLEEVE TYPE. Length of Bearing in Stern Bush next to and supporting propeller 19.5"  
 Propeller, dia. 59.5" Pitch 43" No. of blades 4. Material C. whether Moveable No. Total Developed Surface 9.6. sq. feet  
 Method of reversing Engines DIRECT Is a governor or other arrangement fitted to prevent racing of the engine when disengaged YES. Means of lubrication             
FORCED Thickness of cylinder liners 1/8" Are the cylinders fitted with safety valves YES Are the exhaust pipes and silencers water cooled or lagged with  
                                  
 non-conducting material YES. If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine             
 Cooling Water Pumps, No. ONE Is the sea suction provided with an efficient strainer which can be cleared within the vessel -  
 Bilge Pumps worked from the Main Engines, No. ONE Diameter 4.25" Stroke 3" Can one be overhauled while the other is at work -  
 Pumps connected to the Main Bilge Line } No. and Size             
 } How driven             
 Is the cooling water led to the bilges - If so, state what special arrangements are made to deal with this water in addition to the ordinary  
 arrangements             
 Ballast Pumps, No. and size            Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size             
 Are two independent means arranged for            Suctions, connected to bilge             
 Pumps, No. and size:—In           

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**AIR RECEIVERS:** — Have they been made under survey  **YES** State No. of Report or Certificate \_\_\_\_\_  
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule  **YES**  
 Can the internal surfaces of the receivers be examined and cleaned  **YES** Is a drain fitted at the lowest part of each receiver  **YES**  
**Injection Air Receivers,** No. \_\_\_\_\_ Cubic capacity of each \_\_\_\_\_ Internal diameter \_\_\_\_\_ thickness \_\_\_\_\_  
 Seamless, lap welded or riveted longitudinal joint \_\_\_\_\_ Material \_\_\_\_\_ Range of tensile strength \_\_\_\_\_ Working pressure \_\_\_\_\_ by Rules \_\_\_\_\_  
**Starting Air Receivers,** No. THREE Total cubic capacity 18.4 CU. FT. Internal diameter 2. 9 7/8" Working pressure \_\_\_\_\_ Actual 1 5/16"  
 Seamless, lap welded or riveted longitudinal joint SEAMLESS Material STEEL Range of tensile strength 28-32 TONS Working pressure \_\_\_\_\_ by Rules APPROVED  
 Actual 350 LBS.

**IS A DONKEY BOILER FITTED?** \_\_\_\_\_ If so, is a report now forwarded? \_\_\_\_\_  
 Is the donkey boiler intended to be used for domestic purposes only \_\_\_\_\_  
**PLANS.** Are approved plans forwarded herewith for Shafting  **YES** Receivers  **YES** Separate Fuel Tanks  **YES**  
 (If not, state date of approval) \_\_\_\_\_  
 Donkey Boilers \_\_\_\_\_ General Pumping Arrangements \_\_\_\_\_ Pumping Arrangements in Machinery Space \_\_\_\_\_  
 Oil Fuel Burning Arrangements \_\_\_\_\_

**SPARE GEAR.**

Has the spare gear required by the Rules been supplied  **YES**  
 State the principal additional spare gear supplied \_\_\_\_\_

The foregoing is a correct description,  
 For **MIDDOP & COMPANY LTD.**

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1941 JAN 31. FEB 19. MAR 7. 12. APRIL 25. 30. MAY 12  
 { During erection on board vessel - - - }  
 Total No. of visits 7

Dates of Examination of principal parts—Cylinders 3/1.41 Covers 3/1.41 Pistons 3/1.41 Rods - Connecting rods 3/1.41  
 Crank shaft 3/1.41 Flywheel shaft - Thrust shaft 12.3.41 Intermediate shafts - Tube shaft -  
 Screw shaft - Propeller - Stern tube - Engine seatings - Engines holding down bolts -  
 Completion of fitting sea connections - Completion of pumping arrangements - Engines tried under working conditions -

Crank shaft, Material O.H. STEEL, Identification Mark LLOYDS 3389 3/1.41 Flywheel shaft, Material - Identification Mark -  
 Thrust shaft, Material O.H. STEEL, Identification Mark LLOYDS 297 12.3.41 Intermediate shafts, Material O.H. STEEL Identification Marks -  
 Tube shaft, Material - Identification Mark - Screw shaft, Material O.H. STEEL, Identification Mark -  
 Identification Marks on Air Receivers C.T. Co. C.T. Co. RUSTON  
890450. WP 350 LBS. 890451. WP 350 LBS 40. 81. 167. D 870.  
LLOYDS TEST 1000 LBS. 7.5.40. L.T. LLOYDS TEST 1000 LBS. 7.5.40. LT. LLOYDS TEST 1000 LBS 17.6.40. AS.

Kind of the oil to be used over 150° F.  **YES**  
 of the Rules for oil fuel pipes and tank fittings been complied with \_\_\_\_\_  
 apparatus fitted \_\_\_\_\_  
 used for carrying oil as cargo \_\_\_\_\_ If so, have the requirements \_\_\_\_\_ been complied with \_\_\_\_\_  
 state whether the requirements in this respect have been \_\_\_\_\_  
 previous case  **YES**

