

Mdb. Ref No. 19140

pt. 4b.

REPORT ON OIL ENGINE MACHINERY.

No. 107075

RECEIVED

Received at London Office 10 MAR 1950

Date of Survey 17 MAR 1950 19 When handed in at Local Office 9 MAR 1950 19 Port of NEWCASTLE-on-TYNE

Survey held at NEWCASTLE ON TYNE Date, First Survey 18th MARCH 1949 Last Survey 21st FEBRUARY 1950

Boat on the Tonnage Register Single Triple Quadruple Tons Gross 10146 Net 5865

Built at MIDDLESBOROUGH By whom built SMITHS DOCK CO. LD. Yard No. 1197. When built 1950

Engines made at NEWCASTLE By whom made R. W. HAWTHORN LESLIE & CO. LD. Engine No. 4059 When made 1949

Boilers made at WEST HARTLEPOOL By whom made CENTRAL MARINE ENGINE WORKS Boiler No. R396 When made 1949

Indicated Horse Power 4,400 Owners THE LUSTROUS STEAMSHIP CO. LTD Port belonging to LIVERPOOL

N. Power as per Rule 902 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES

Service for which vessel is intended OPEN SEA SERVICE

Engines, &c. Type of Engines HAWTHORN-DOXFORD OPPOSED PISTON 2 or 4 stroke cycle 2 Single or double acting SINGLE

Maximum pressure in cylinders 640 LBS/SQ IN Diameter of cylinders 670 mm Length of stroke 2320 mm No. of cylinders FOUR No. of cranks 4

Indicated Pressure 89 LBS/SQ IN Ahead Firing Order in Cylinders 1.3.4.2 Span of bearings, adjacent to the crank, measured between each 2020 mm

Is there a bearing between each crank 3-THROW Revolutions per minute 112

Weight 1.15 TNS Moment of inertia of flywheel (lbs. in² or Kg. cm.²) 0.497 TNS. FT/SEC² Means of ignition COMPRESS Kind of fuel used HEAVY OIL

Crank pin dia. 500 mm Crank webs Mid. length breadth 710 mm Thickness parallel to axis 285 mm

Intermediate Shafts, diameter 72 3/8" Thrust Shaft, diameter at collars 500 mm

Screw Shaft, diameter 21" Is the shaft fitted with a continuous liner YES

Thickness of cylinder liners 25 mm Are the cylinders fitted with safety valves YES

Are the exhaust pipes and silencers water cooled YES

Cooling Water Pumps, No. 1 ME DRIVEN - 239 TNS/HR

Power Driven Lubricating Oil Pumps, including spare pump, No. and size 1 ME DRIVEN : 53 TNS/HR

Suctions, connected to both main bilge pumps and auxiliary pumps, No. and size: In machinery spaces In pump room

Independent Power Pump Direct Suctions to the engine room bilges, No. and size

Are the bilge suction pipes in holds and tunnel well fitted with strum-boxes

Are the bilge suction pipes in the machinery spaces led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

Are they fitted with valves or cocks Are they fixed

Are the overboard discharges above or below the deep water line

Are the blow off cocks fitted with a spigot and brass covering plate

How are they protected

Have they been tested as per Rule

Are the shaft tunnel watertight Is it fitted with a watertight door

worked from

Are the overboard discharges above or below the deep water line

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Are the shaft tunnel watertight Is it fitted with a watertight door

worked from



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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, welded or riveted longitudinal joint — Material — Range of tensile strength — Working pressure *by Rules...*
 Starting Air Receivers, No. *TWO* Total cubic capacity. *300 cu. ft.* Internal diameter. *4-1 3/8"* thickness. *1 5/16"*
 Seamless, welded or riveted longitudinal joint. *ELECT. WELDED* Material. *MILD STEEL* Range of tensile strength. *SMALL 28/32 TNS/IN* Working pressure. *ENDS 26/30 TNS/IN* Actual... *60*

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...
 Donkey boilers... General pumping arrangements... Pumping arrangements in machinery space...
 Oil fuel burning arrangements...
 Have Torsional Vibration characteristics been approved... *YES* Date of approval... *7th APRIL 1949*

SPARE GEAR.

Has the spare gear required by the Rules been supplied... *YES*
 State the principal additional spare gear supplied... *AS PER ATTACHED LISTS.*

NOTE: DOXFORD-BIBBY DETUNER FITTED. FIXED MEMBER WK² = 4.5 TNS FT²; FLOATING MEMBER WK² = 10.0 TNS FT².

ABF AND THE PARTICULARS OF THE INSTALLATION AS FITTED ARE AS APPROVED
 TORSIONAL VIBRATION CHARACTERISTICS
 The foregoing is a correct description, Manufacturer.

DATES OF SURVEY
 During progress of work in shops... 1.10.49 MAR. 18, 21, 24, 27, 30, 31, 1.4.50, 4.6.50, 7.6.50, 10.6.50, 13.6.50, 16.6.50, 19.6.50, 22.6.50, 25.6.50, 28.6.50, 1.7.50, 4.7.50, 7.7.50, 10.7.50, 13.7.50, 16.7.50, 19.7.50, 22.7.50, 25.7.50, 28.7.50, 31.7.50, 3.8.50, 6.8.50, 9.8.50, 12.8.50, 15.8.50, 18.8.50, 21.8.50, 24.8.50, 27.8.50, 30.8.50, 31.8.50, 3.9.50, 6.9.50, 9.9.50, 12.9.50, 15.9.50, 18.9.50, 21.9.50, 24.9.50, 27.9.50, 30.9.50, 3.10.50, 6.10.50, 9.10.50, 12.10.50, 15.10.50, 18.10.50, 21.10.50, 24.10.50, 27.10.50, 30.10.50, 31.10.50, 3.11.50, 6.11.50, 9.11.50, 12.11.50, 15.11.50, 18.11.50, 21.11.50, 24.11.50, 27.11.50, 30.11.50, 31.11.50, 3.12.50, 6.12.50, 9.12.50, 12.12.50, 15.12.50, 18.12.50, 21.12.50, 24.12.50, 27.12.50, 30.12.50, 31.12.50, 3.1.51, 6.1.51, 9.1.51, 12.1.51, 15.1.51, 18.1.51, 21.1.51, 24.1.51, 27.1.51, 30.1.51, 31.1.51, 3.2.51, 6.2.51, 9.2.51, 12.2.51, 15.2.51, 18.2.51, 21.2.51, 24.2.51, 27.2.51, 30.2.51, 31.2.51, 3.3.51, 6.3.51, 9.3.51, 12.3.51, 15.3.51, 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30.3.56, 31.3.56, 3.4.56, 6.4.56, 9.4.56, 12.4.56, 15.4.56, 18.4.56, 21.4.56, 24.4.56, 27.4.56, 30.4.56, 31.4.56, 3.5.56, 6.5.56, 9.5.56, 12.5.56, 15.5.56, 18.5.56, 21.5.56, 24.5.56, 27.5.56, 30.5.56, 31.5.56, 3.6.56, 6.6.56, 9.6.56, 12.6.56, 15.6.56, 18.6.56, 21.6.56, 24.6.56, 27.6.56, 30.6.56, 31.6.56, 3.7.56, 6.7.56, 9.7.56, 12.7.56, 15.7.56, 18.7.56, 21.7.56, 24.7.56, 27.7.56, 30.7.56, 31.7.56, 3.8.56, 6.8.56, 9.8.56, 12.8.56, 15.8.56, 18.8.56, 21.8.56, 24.8.56, 27.8.56, 30.8.56, 31.8.56, 3.9.56, 6.9.56, 9.9.56, 12.9.56, 15.9.56, 18.9.56, 21.9.56, 24.9.56, 27.9.56, 30.9.56, 31.9.56, 3.10.56, 6.10.56, 9.10.56, 12.10.56, 15.10.56, 18.10.56, 21.10.56, 24.10.56, 27.10.56, 30.10.56, 31.10.56, 3.11.56, 6.11.56, 9.11.56, 12.11.56, 15.11.56, 18.11.56, 21.11.56, 24.11.56, 27.11.56, 30.11.56, 31.11.56, 3.12.56, 6.12.56, 9.12.56, 12.12.56, 15.12.56, 18.12.56, 21.12.56, 24.12.56, 27.12.56, 30.12.56, 31.12.56, 3.1.57, 6.1.57, 9.1.57, 12.1.57, 15.1.57, 18.1.57, 21.1.57, 24.1.57, 27.1.57, 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