

# REPORT ON OIL ENGINE MACHINERY.

No. 121648

Received at London Office

7209 and 7

Receiver: Yng Report 11 Jan 1951 When handed in at Local Office 12 Jan 1951 Port of LONDON

Survey held at STAINES MIDOX Date, First Survey 23 November Last Survey 13 December 1950 Number of Visits Two

Single Screw vessel Tons Gross Net

By whom built Norderpings Vard Yard No. 136 When built

By whom made J.H. McLaren Engine No. 480323 When made 12/50

Boiler No. When made

Port belonging to

Is Electric Light fitted

Is Refrigerating Machinery fitted for cargo purposes

Which vessel is intended

2.2.1950 with range of 98 a INES, &c. Type of Engines PETTER 34 TYPE 4 CYL. VERTICAL 2 or 4 stroke cycle A Single or double acting SINGLE

Pressure in cylinders 1000 lbs./sq. in. Diameter of cylinders 4.33 Length of stroke 4.53 No. of cylinders 4 No. of cranks 4

Rated Pressure 96 lbs./sq. in. Ahead Firing Order in Cylinders 1342 Span of bearings, adjacent to the crank, measured

edge to inner edge 5/8 Is there a bearing between each crank Yes Revolutions per minute 1000/1500

Weight 280 lb Moment of inertia of flywheel (lbs. in<sup>2</sup> or Kg. cm.<sup>2</sup>) Means of ignition Comp Kind of fuel used DIESEL

as per Rule 3 Crank pin dia. 3 Crank webs Mid. length breadth 4 1/8 Thickness parallel to axis

as fitted 3 Thrust Shaft, diameter at collars as per Rule

Intermediate Shafts, diameter as per Rule

Screw Shaft, diameter as per Rule

Is the tube shaft fitted with a continuous liner

Is the after end of the liner made watertight in the

Thickness between bushes as per Rule

Is the after end of the liner made watertight in the

Length of bearing in Stern Bush next to and supporting propeller

Whether moveable Total developed surface sq. feet

Kind of damper, if fitted

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of

Are the exhaust pipes and silencers water cooled

Are the cylinders fitted with safety valves No

Are the exhaust pipes and silencers water cooled

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Can one be overhauled while the other is at work

No. and size

How driven

If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

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

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AIR RECEIVERS:—Have they been made under survey..... State No. of report or certificate.....

Is each receiver, which can be isolated, fitted with a safety valve as per Rule.....

Can the internal surfaces of the receivers be examined and cleaned..... Is a drain fitted at the lowest part of each receiver.....

Injection Air Receivers, No..... Cubic capacity of each..... Internal diameter..... thickness.....

Seamless, welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working pressure.....

Starting Air Receivers, No..... Total cubic capacity..... Internal diameter..... thickness.....

Seamless, welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working pressure.....

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 24.2.50. GENERAL APPROVAL. Receivers..... Separate fuel tank.....

Donkey boilers..... General pumping arrangements..... Pumping arrangements in machinery space.....

Oil fuel burning arrangements.....

Have Torsional Vibration characteristics been approved..... Date of approval.....

SPARE GEAR.

Has the spare gear required by the Rules been supplied. YES.....

State the principal additional spare gear supplied 2 EXH. VALVES. 2 INLET VALVES. 4 VALVE COLLETS. 1 SET. SPRINGS.....

2 INJECTION NOZZLES. 2 MAIN BEARINGS. 3 INTER. BEARINGS. 4 BIG END BEARINGS. 1 SET. PISTON RINGS.....

6 CYL HEAD STUDS. 2 MAIN BRG STUDS. 1 FUEL PUMP. 1 PISTON P.N. 1 SMALL END BUSH. 1 SET VALVE SPRINGS.....

The foregoing is a correct description..... Manufacturer.....

Dates of Survey while building..... During progress of work in shops - - 23.1.50. 13.12.50..... During erection on board vessel - - - - - Total No. of visits. 2 (2 shops).....

Dates of examination of principal parts—Cylinders 23.11.50. Covers 23.11.50. Pistons 23.11.50. Rods..... Connecting rods 23.11.50.....

Crank shaft 23.11.50. Flywheel shaft..... Thrust shaft..... Intermediate shafts..... Tube shaft.....

Screw shaft..... Propeller..... Stern tube..... Engine seatings..... Engine holding down bolts.....

Completion of fitting sea connections..... Completion of pumping arrangements..... Engines tried under working conditions.....

Crank shaft, material S.M. STEEL. Identification mark S.382. Flywheel shaft, material..... Identification mark.....

Thrust shaft, material..... Identification mark..... Intermediate shafts, material..... Identification marks.....

Tube shaft, material..... Identification mark..... Screw shaft, material..... Identification mark.....

Identification marks on air receivers.....

Welded receivers, state Makers' Name.....

Is the flash point of the oil to be used over 150°F.....

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with.....

Description of fire extinguishing apparatus fitted.....

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo..... If so, have the requirements of the Rules been complied with.....

If the notation for ice strengthening is desired, state whether the requirements in this respect have been complied with.....

Is this machinery duplicate of a previous case..... If so, state name of vessel.....

General Remarks (State quality of workmanship, opinions as to class, &c.....

This Engine has been built under survey in accordance with approved plans and the requirements of the Rules. Steel used in manufacture has been made at Works approved by the Committee and tested in the presence of the Society's Surveyors. The Engine was tested at the maker's Works on full load and overload with satisfactory results. The workmanship is satisfactory and the Engine is in my opinion suitable for the purpose intended.

Engine made to the order of Messrs J.B. Kungöf. Varbergsten 15. Stockholm, Sweden. Order No. 125.

The amount of Entry Fee ... £ : : When applied for 15 Jan 1951  
Special ... £ 4.0.0 : :  
Donkey Boiler Fee... £ : : When received 19  
Travelling Expenses (if any) £ 5.0

Committee's Minute..... Assigned.....