

REPORT ON OIL ENGINE MACHINERY.

No. 20401.

Received at London Office

1937

Date of writing Report 12th July, 1937 When handed in at Local Office 12th July, 1937 Port of GREENOCK.
Date, First Survey 10th March, 1937 Last Survey 29th June, 1937.
Number of Visits NINE.

No. in Survey held at Greenock Reg. Book. Greenock Tons ^{Gross} _____ _{Net} _____

on the Single Screw vessel M. V. "SERENITY"

Built at Greenock By whom built Mrs. Brown & Co. Yard No. 201 When built 1937-6.

Engines made at Greenock By whom made Greenock Diesel Co. Ltd. Engine No. 692 When made 1937.

Donkey Boilers made at None By whom made _____ Boiler No. _____ When made _____

Brake Horse Power 500 Owners J. J. Gerard & Son Ltd. Port, belonging to London

Nom. Horse Power as per Rule 139 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which vessel is intended Coasting.

ENGINES, &c.—Type of Engines Oil-less injection; scavenging pump fitted 2 or 4 stroke cycle. 2 Single or double acting Single

Maximum pressure in cylinders _____ Diameter of cylinders _____ Length of stroke _____ No. of cylinders _____ No. of cranks _____

Indicated Pressure _____ Is there a bearing between each crank _____

of bearings, adjacent to the Crank, measured from inner edge to inner edge _____

Revolutions per minute _____ Flywheel dia. _____ Weight _____ Means of ignition _____ Kind of fuel used _____

Crank Shaft, dia. of journals _____ Crank pin dia. _____ Crank Webs _____ Thickness parallel to axis _____ Thickness around eyehole _____

Propeller Shaft, diameter _____ Intermediate Shafts, diameter _____ Thrust Shaft, diameter at collars _____

Screw Shaft, diameter _____ Is the tube screw shaft fitted with a continuous liner _____

Liner thickness in way of bushes _____ Thickness between bushes _____ Is the after end of the liner made watertight in the _____

_____ If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner _____

_____ Is an approved Oil Gland or other appliance fitted at the after end of the tube _____

_____ Length of Bearing in Stern Bush next to and supporting propeller 2L5"

Propeller, dia. _____ Pitch _____ No. of blades _____ Material _____ whether Moveable _____ Total Developed Surface _____ sq. feet

Method of reversing Engines _____ Is a governor or other arrangement fitted to prevent racing of the engine when declutched _____ Means of lubrication _____

_____ Are the cylinders fitted with safety valves _____ Are the exhaust pipes and silencers water cooled or lagged with _____

_____ If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine _____

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

_____ Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____

_____ No. and size 2 @ 110 mm. x 120 mm. S.A. 1.2 G.P. D.A. 125 mm. x 120 mm.

_____ How driven Main Engine. Electric Engine

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

_____ Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size In. Ppt. 2

_____ Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge _____

_____ In Pump Room _____

_____ No. and size:—In Machinery Spaces 4 @ 2 1/2" ✓ 1 @ 1 1/2" ✓

_____ In Holds, etc. 2 @ 2 1/2" ✓

_____ Are the Bilge Suctions in the Machinery Spaces _____

_____ Are they fitted with Valves or Cocks Both ✓

_____ Are the Overboard Discharges above or below the deep water line Above ✓

_____ Are the Blow Off Cocks fitted with a spigot and brass covering plate None ✓

_____ How are they protected _____

_____ Have they been tested as per Rule _____

_____ all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____

_____ Is the Shaft Tunnel watertight None Is it fitted with a watertight door _____ worked from _____

_____ Is it fitted with a watertight door _____ worked from _____

_____ Driven by _____

AIR RECEIVERS:—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
High Pressure Air Receivers, No. Internal diameter _____ thickness _____
 Seamless, lap welded or riveted longitudinal joint _____ Cubic capacity of each _____ Working pressure _____
Starting Air Receivers, No. Material _____ Range of tensile strength _____
 Seamless, lap welded or riveted longitudinal joint _____ Internal diameter _____ thickness _____
 Material _____ Range of tensile strength _____ Working pressure _____
 If so, is a report now forwarded? No

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

SPARE GEAR.
Yes
 Has the spare gear required by the Rules been supplied?
 State the principal additional spare gear supplied
104612.

The foregoing is a correct description,
 Manufacturer. _____

Dates of Survey while building { During progress of work in shops-- }
 { During erection on board vessel-- } (1937) MAR. 10. 30. APRIL 6. 26. JUNE 4. 16. 23. 24. 29.
 Total No. of visits 9
 Dates of Examination of principal parts—Cylinders _____ Covers _____ Pistons _____ Rods _____ Connecting rods _____
 Crank shaft _____ Flywheel shaft _____ Thrust shaft _____ Intermediate shafts _____ Tube shaft _____
 Screw shaft _____ Propeller 7-6-37 Stern tube Yes Rpt. Engine seatings 7-6-37 Engines holding down bolts 24-6-37
 Completion of fitting sea connections 7-6-37 Completion of pumping arrangements 29-6-37 Engines tried under working conditions 29-6-37
 Crank shaft, Material _____ Identification Mark _____ Flywheel shaft, Material _____ Identification Mark _____
 Thrust shaft, Material _____ Identification Mark Yes Rpt. 104612 Intermediate shafts, Material _____ Identification Mark _____
 Tube shaft, Material _____ Identification Mark _____ Screw shaft, Material _____ Identification Mark _____

Is the flash point of the oil to be used over 150° F. Yes
 Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with Yes
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No 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 No If so, state name of vessel _____

General Remarks (State quality of workmanship, opinions as to class, &c.) See Engines & other Auxiliaries have been properly fitted on board, tried under full power & found satisfactory. Materials & workmanship found good. This machinery is eligible, in my opinion, for class in the Register Book with notation: LMC - 6.37. Oil Sp. O.

The amount of Entry Fee .. £ - : - : _____
 Special £ 6 : 19 : _____
 Donkey Boiler Fee £ - : - : _____
 Travelling Expenses (if any) £ - : - : _____
 When applied for, 15th JULY 1937
 When received, 28. 8. 1937

Committee's Minute GLASGOW 6th JUL 1937
 Assigned + LMC 6.37 RPT

J. R. Boyle
 Engineer Surveyor to Lloyd's Register of Shipping.



S.S.O.A. see book of no. 2447 at. Mr. John Knight
 17/37
 104612