

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

20.11.52 When handed in at Local Office 20.11.52 Port of Glasgow
 held at Glasgow Date, First Survey 1.10.52 Last Survey 16.10.1952
 (Number of Visits 10)
 WEATHER OBSERVER. (2 MARGHERITA) Tons { Gross _____ Net _____
 By whom built Hall, Russell & Co Ltd. Yard No. _____ When built _____
 By whom made Hall, Russell & Co Ltd. Engine No. _____ When made _____
 By whom made Burley, Burke & Co Ltd. Boiler No. _____ When made _____
 Power 1,100 h.p. (stated) Owners The Air Ministry Port belonging to _____
 as per Rule MN 495 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 vessel is intended For Government Service.

Description of Engines Triple Expansion (2 h.p. cylinders). Revs. per minute 165 (stated)
18 1/2" - 31" - 38 1/2" + 38 1/2" Length of Stroke 30" No. of Cylinders 4 No. of Cranks 4 (Balanced)
 as per Rule 10.04" Mid. length breadth 16 1/2" Thickness parallel to axis 6 1/2"
 of journals as fitted 10 1/2" Crank pin dia. 10 1/2" Crank webs Mid. length thickness 6 1/2" shrunk Thickness around eye-hole 4 3/4"
 as per Rule 9.56" Thrust shaft, diameter at collars as per Rule 10.04"
 as fitted 10 1/4" at coupling; 15 1/4" in body. as fitted 10 1/2" at collars
 as per Rule 10.435" Is the tube shaft fitted with a continuous liner Yes
 as fitted 10 7/8" as per Rule _____
 as per Rule 19.65/32" Thickness between bushes as per Rule _____
 as fitted 5/8" as fitted _____ Is the after end of the liner made watertight in the
Yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner _____
 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. _____
 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
 If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller 60"
0'-6" Pitch 10'-8" (stated) No. of Blades 3 Material Brass whether Moveable No Total Developed Surface 31 sq. feet
 taken from the Main Engines, No. nil Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____
 taken from the Main Engines, No. nil Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____
 size 2:- 18 1/2" x 6" x 18" } all simple Pumps connected to the { No. and size 2:- 6" x 6" x 6" duplex
1:- 10 1/2" x 8" x 22" } steam driven Main Bilge Line { How driven steam driven
 No. and size nil Lubricating Oil Pumps, including Spare Pump, No. and size nil
 dent means arranged for circulating water through the Oil Cooler nil Suctions, connected both to Main Bilge Pumps and Auxiliary
 -In Engine and Boiler Room _____
 In Holds, &c. _____

culating Pump Direct Bilge Suctions, No. and size _____ Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges,
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes _____
 uctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges
 nections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Yes
 ufficiently high on the ship's side to be seen without lifting the stokehold plates. Yes Are the Overboard Discharges above or below the deep water line. Below.
 tted with a Discharge Valve always accessible on the plating of the vessel. Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate. Yes
 ss through the bunkers _____ How are they protected _____
 ss through the deep tanks _____ Have they been tested as per Rule _____
 Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times. Yes
 ent of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one
 another. _____ Is the Shaft Tunnel watertight Yes Is it fitted with a watertight door _____ worked from _____
Access by hatch in main deck.

ERS, &c.—(Letter for record _____) Total Heating Surface of Boilers _____
 are fitted with Forced Draft _____ Which Boilers are fitted with Superheaters _____
 Working Pressure 225 lb. (stated)
 ORT ON MAIN BOILERS NOW FORWARDED? Main Boilers not examined at this time.
 KEY BOILER FITTED? _____ If so, is a report now forwarded? _____

boiler be used for other than domestic purposes _____
 Are approved plans forwarded herewith for Shafting _____ Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____
 (If not state date of approval)

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

SPARE GEAR.

gear required by the Rules been supplied _____
 cipal additional spare gear supplied _____

foregoing is a correct description.

Manufacturer.

003750-003762-0171

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Lloyd's Register
 Foundation

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits

Dates of Examination of principal parts—Cylinders

Slides

Covers

Pistons

Piston Rods

Connecting rods

Crank shaft

Thrust shaft

Intermediate shafts

Tube shaft

Screw shaft

Propeller

Stern tube

Engine and boiler seatings

Engines holding down bolts

Completion of fitting sea connections

Completion of pumping arrangements

Boilers fixed

Engines tried under steam

Main boiler safety valves adjusted

Thickness of adjusting washers

Crank shaft material

Identification Mark

Thrust shaft material

Identification Mark

Intermediate shafts, material

Identification Marks

Tube shaft, material

Identification Mark

Screw shaft, material

Identification Mark

Steam Pipes, material

Test pressure

Date of Test

Is an installation fitted for burning oil fuel

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

Have the requirements of the Rules for the use of oil as fuel been complied with

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.

For the Committee's information.

The amount of Entry Fee

Special

Donkey Boiler Fee

Travelling Expenses (if any)

£

£

£

£

:

:

:

:

When applied for,

19

When received,

19

Ralph M. Richards.
Engineer Surveyor to Lloyd's Register

Date
GLASGOW
25 NOV 1952

Committee's Minute
ACCOMPANYING MACHINERY REPORT