

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

26 NOV 1952

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. (EX 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, Leake & Co Ltd. Boiler No. - When made -

Power i.h.p. 2750 (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 1/2" 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" Is the screw shaft fitted with a continuous liner Yes

as per Rule 19.65/32 Thickness between bushes as per Rule - Is the after end of the liner made watertight in the

as fitted 5/8" as fitted - as fitted -

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

do 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 Brongze whether Moveable No Total Developed Surface 51 sq. feet

worked from the Main Engines, No. nil Diameter - Stroke - Can one be overhauled while the other is at work -

worked 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 simplex Pumps connected to the { No. and size 2:- 6" x 6" x 6" duplex

size 1:- 10 1/2" x 8" x 22" } steam driven Main Bilge Line { How driven steam driven

iven nil Lubricating Oil Pumps, including Spare Pump, No. and size nil

ident 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 -

suctions 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

connections 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 -

is through the deep tanks - Have they been tested as per Rule -

ocks, 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 -

escription of Boilers - 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 -

incipal additional spare gear supplied -

foregoing is a correct description. -

Manufacturer -

003750-003762-0171



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 Marks
 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	... £	:	:	When applied for,
Special	... £	:	:	19.
Donkey Boiler Fee	... £	:	:	When received,
Travelling Expenses (if any)	£	:	:	19.

Date **GLASGOW 25 NOV 1952**

Ralph M. Richards
Engineer Surveyor to Lloyd's Register

Certificate to be sent to
 (This Surveyors are requested not to write on or below the space for Committee's Minute.)
 20/11/52
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Committee's Minute.....

ACCOMPANYING MACHINERY REPORT



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