

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

6 OCT 1941

Received at London Office

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Date of writing Report 10 When handed in at Local Office 19 Port of HULL

No. in Survey held at HULL Date, First Survey 13-11-40 Last Survey 9-9-1941
 Reg. Book. on the H.M.T. SHAPINSAY (Number of Visits 39)

Built at SELBY By whom built Messrs. Cochrane & Sons, Ltd. Yard No. 1230 Tons { Gross 452. Net 142. When built 1941

Engines made at HULL By whom made Messrs. Armstrong & Co. Engine No. 691. When made 1941

Boilers made at HULL By whom made Messrs. Armstrong & Co. Boiler No. 691. When made 1941

Registered Horse Power Owners THE ADMIRALTY. Port belonging to

Nom. Horse Power as per Rule 156. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes.

Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Triple expansion CONTRACT Revs. per minute 160.

Dia. of Cylinders 13 1/2" 23" 38" Length of Stroke 27" No. of Cylinders 3. No. of Cranks 3.

Crank shaft, dia. of journals as per Rule 7.5. Crank pin dia. 7 7/8" Crank webs Mid. length breadth — Thickness parallel to axis 4 1/16" as fitted 7 7/8" Mid. length thickness — shrunk Thickness around eye-hole 3 1/16"

Intermediate Shafts, diameter as per Rule 7.15" Thrust shaft, diameter at collars as per Rule 7.5. as fitted 7 1/4" as fitted 7 7/8"

Tube Shafts, diameter as per Rule — Screw Shaft, diameter as per Rule 8.2. Is the screw shaft fitted with a continuous liner? No.

Bronze Liners, thickness in way of bushes as per Rule — Thickness between bushes as per Rule — Is the after end of the liner made watertight in the propeller boss? — If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner? —

If the liner does 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? —

If two liners are 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? —

Propeller, dia. 105" Pitch 9'-4" No. of Blades 3 Material Cast Iron whether Moveable Solid Total Developed Surface 30 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work? Yes

Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work? Yes

Feed Pumps { No. and size One 4" x 6" x 12" Weirs. Pumps connected to the Main Bilge Line { No. and size One 6" x 5 1/2" x 15" Weir How driven Independent Steam Main Bilge Line How driven Independent Steam ALSO Donkey

Ballast Pumps, No. and size NONE Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler? None Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room Eng. Rm. 2@2" Dia One @ 3 1/2" Dia Stokehold 2@2" Dia.

In Pump Room None In Holds, &c. One @ 2" Dia in each of the following:—Fore peak Chain locker, ASDIC Space Magazine, Spirit Room, Bunker, Shaft Space & after peak

Main Water Circulating Pump Direct Bilge Suctions, No. and size One @ 5" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One @ 3 1/2" Included above Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes? Yes.

Are the Bilge 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? Yes.

Are all Sea Connections fitted direct on the skin of the ship? Yes. Are they fitted with Valves or Cocks? Yes.

Are they fixed sufficiently 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 at W.L.?

Are they each fitted 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? No.

What Pipes pass through the bunkers? Feed Tank Suction. How are they protected? Wood Casings.

What pipes pass through the deep tanks? None. Have they been tested as per Rule? —

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times? Yes.

Is the arrangement 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 compartment to another? Yes. Is the Shaft Space watertight? Yes. Is it fitted with a watertight door? Access covered from flat above

MAIN BOILERS, &c.—(Letter for record 5.) Total Heating Surface of Boilers 2650.

Which Boilers are fitted with Forced Draft All. Which Boilers are fitted with Superheaters None

No. and Description of Boilers One S.B. Working Pressure 200 lbs.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.

IS A DONKEY BOILER FITTED? No. If so, is a report now forwarded? —

Can the donkey boiler be used for domestic purposes only? —

PLANS. Are approved plans forwarded herewith for Shafting 17-7-39. Main Boilers 17-7-39. Auxiliary Boilers None Donkey Boilers None

(If not state date of approval)

Superheaters None General Pumping Arrangements 17-10-39. Oil fuel Burning Piping Arrangements None

SPARE GEAR.

Has the spare gear required by the Rules been supplied? Yes

State the principal additional spare gear supplied. See attached list.

The foregoing is a correct description.
 For AMOS & SMITH LTD.

A. L. Newbery
 DIRECTOR
 Manufacturer.



NOTE.—The records which do not apply should be marked.

