

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 30 JAN 1942

HULL

Date of writing Report 19 \_\_\_\_\_ When handed in at Local Office 27 JAN 1942 Port of HULL

No. in Survey held at Thorne Date, First Survey 16.10.41 Last Survey 9.1.1942

Reg. Book. on the Shin Lyster VIC III. (Number of Visits 7)

Gross Tons 96 Net Tons 41

Built at Thorne By whom built R. Durdon Ltd Yard No. 370 When built 1942-1

Engines made at Garmouth By whom made Crabtree (1931) Ltd Engine No. 627 When made 1942-1

Boilers made at Stocklin By whom made Stocklin C.E. & Pleyden & Co Boiler No. 6572 When made do.

Registered Horse Power \_\_\_\_\_ Owners Ministry of War Transport Port belonging to \_\_\_\_\_

Nom. Horse Power as per Rule 14 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

Trade for which Vessel is intended \_\_\_\_\_

**ENGINES, &c.**—Description of Engines Steam reciprocating Compound Revs. per minute 150.

Dia. of Cylinders 10 1/2" - 22" Length of Stroke 14" No. of Cylinders 2 No. of Cranks 2 @ 90°

Crank shaft, dia. of journals as per Rule 4 3/8" Crank pin dia. 4 3/8" Crank webs Mid. length breadth 1" Thickness parallel to axis 2 7/8" as fitted 4 3/8" Mid. length thickness 1" shrunk Thickness around eye-hole 2"

Intermediate Shafts, diameter as per Rule \_\_\_\_\_ Thrust shaft, diameter at collars as per Rule 4 3/8" as fitted 4 3/8"

Tube Shafts, diameter as per Rule \_\_\_\_\_ Screw Shaft, diameter as per Rule 4 7/8" Is the tube 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 Yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Yes

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 Yes

If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft No If so, state type \_\_\_\_\_ Length of Bearing in Stern Bush next to and supporting propeller 20"

Propeller, dia. 66" Pitch 86" No. of Blades 4 Material C-1 whether Moveable No Total Developed Surface 11.6 sq. feet

Feed Pumps worked from the Main Engines, No. One Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work Yes

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

Feed Pumps { No. and size { Steam Spigot { see also \_\_\_\_\_ Pumps connected to the { No. and size One Parsons Wall type 800 f.p.s. / 40. {  
 { How driven { 1 1/2" { \_\_\_\_\_ { Main Bilge Line { How driven Steam { (also for boiler feed.)

Ballast Pumps, No. and size \_\_\_\_\_ Lubricating Oil Pumps, including Spare Pump, No. and size \_\_\_\_\_

Are two independent means arranged for circulating water through the Oil Cooler \_\_\_\_\_ Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room One @ 1 1/2" dia, One @ 2" dia.

In Pump Room \_\_\_\_\_ In Holds, &c. FP laun 1 @ 1 1/2" dia Hold 1 @ 2" dia

**MAIN WATER CIRCULATING PUMP DIRECT BILGE SUCTIONS, No. and size** One @ 2" dia **INDEPENDENT POWER PUMP DIRECT SUCTIONS to the Engine Room Bilges,** No. and size One @ 2" dia (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 Above

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 Yes

That Pipes pass through the bunkers \_\_\_\_\_ How are they protected \_\_\_\_\_

That pipes pass through the deep tanks \_\_\_\_\_ 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 Tunnel watertight None Is it fitted with a watertight door \_\_\_\_\_ worked from \_\_\_\_\_

**MAIN BOILERS, &c.**—(Letter for record S) Total Heating Surface of Boilers 198 sq. ft.

Is Forced Draft fitted No No. and Description of Boilers One - Vertical - Riley. Working Pressure 120 lbs/sq. in

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

IS A DONKEY BOILER FITTED? Yes If so, is a report now forwarded? Yes

Is the donkey boiler intended to be used for domestic purposes only Yes

**PLANS.** Are approved plans forwarded herewith for Shafting 20.10.41 Main Boilers 21.5.41 Auxiliary Boilers \_\_\_\_\_ Donkey Boilers \_\_\_\_\_

(If not state date of approval)

Superheaters \_\_\_\_\_ General Pumping Arrangements 14.8.41 Oil fuel Burning Piping Arrangements \_\_\_\_\_

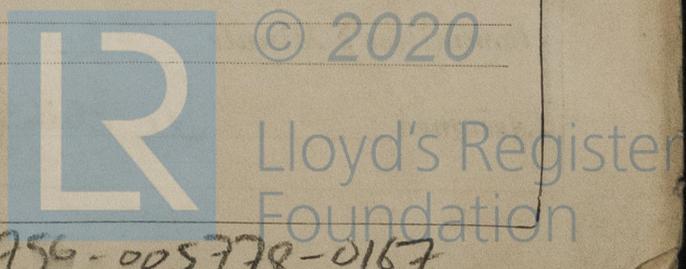
**SPARE GEAR.**

Has the spare gear required by the Rules been supplied Spare as per Specification

State the principal additional spare gear supplied \_\_\_\_\_

The foregoing is a correct description.

Manufacturer.



005756-005778-0167

During progress of work in shops - -

Dates of Survey while building

During erection on board vessel - - - <sup>1941.</sup> Oct. 16. 23. Dec. 8. 16. 30 - <sup>1942.</sup> Jan. 6. 9.

Total No. of visits 7

Dates of Examination of principal parts—Cylinders Sp. Rpt. Slides Sp. Rpt. Covers Sp. Rpt.

Pistons Sp. Rpt. Piston Rods Sp. Rpt. Connecting rods Sp. Rpt.

Crank shaft Sp. Rpt. Thrust shaft Sp. Rpt. Intermediate shafts Sp. Rpt.

Tube shaft ✓ Screw shaft Sp. Rpt. Propeller 83. 10. 41

Stern tube 23-10-41 Engine and boiler seatings 23-10-41 Engines holding down bolts 16. 12. 41

Completion of fitting sea connections 23-10-41.

Completion of pumping arrangements 9. 1. 42 Boilers fixed 16. 12. 41 Engines tried under steam 9. 1. 42

Main boiler safety valves adjusted 4. 1. 42 Thickness of adjusting washers 7/32 both.

Crank shaft material Steel Identification Mark ✓ Thrust shaft material Steel Identification Mark ✓

Intermediate shafts, material Steel Identification Marks ✓ Tube shaft, material Steel Identification Mark ✓

Screw shaft, material Steel Identification Mark ✓ Steam Pipes, material Copper Test pressure 240 lbs Date of Test 30. 12. 41

Is an installation fitted for burning oil fuel. Yes 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 Yes 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 No

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

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

The Machinery of this vessel has been fitted on board under the Society's supervision. The workmanship is good & the installation is in accordance with the Specification. It was found satisfactory in every respect when tried under steam.

The amount of Entry Fee ... £ : : When applied for, 27 JAN 1942

Special ... £ 6 : 16 : : 19...

Donkey Boiler Fee ... £ : : - When received,

Travelling Expenses (if any) £ : : 19...

Hiley J. G. Johnson  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 17 FEB 1942

Assigned See minute on Hull F.E



Certificate to be sent to The Surveyors are requested not to write on or below the space for Committee's Minute.