

MAY 1943

Received at London Office

-5 MAY 1943

ENGINES, &c.—Description of Engines Triple Expansion
 Dia. of Cylinders 11, 18, 30 Length of Stroke 18 No. of Cylinders 3 Revs. per minute 160
 Crank shaft, dia. of journals as per Rule Crank pin dia. as fitted Mid. length breadth as fitted Thickness parallel to axis as fitted
 Intermediate Shafts, diameter as per Rule Crank webs as fitted Mid. length thickness as fitted Thickness around eye-hole as fitted
 Tube Shafts, diameter as per Rule Thrust shaft, diameter at collars as fitted
 Bronze Liners, thickness in way of bushes as per Rule Is the after end of the liner made watertight in the propeller boss ✓
 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. 7'-6" Pitch 6'-9" No. of Blades 4 Material C. I. whether Moveable Yes Total Developed Surface 23 sq. feet
 Feed Pumps worked from the Main Engines, No. One Diameter 2 1/4" Stroke 9" Can one be overhauled while the other is at work ✓
 Bilge Pumps worked from the Main Engines, No. One Diameter 2 1/4" Stroke 9" Can one be overhauled while the other is at work ✓
 Feed Pumps { No. and size One 2 1/4" x 9" One 6" x 4 1/2" x 10" One 5" x 3 1/2" x 6" up.
 How driven M.E. Ind. Str. Main Bilge Line { No. and size One 2 1/2" x 9" One 2 1/2" One 5" x 3 1/2" x 6" up.
 Ballast Pumps, No. and size One 6" x 5 3/4" x 6" Lubricating Oil Pumps, including Spare Pump, No. and size None
 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 2 1/4" one 3 1/2" in E.R. One 2 1/2" in E.R. (Injector). One 2" in B.R.
 In Pump Room One 4" In Holds, &c. One in each Cofferdam 2". One 2" in storeroom

Main Water Circulating Pump Direct Bilge Suctions, No. and size. *One 3 1/2"* **Independent Power Pump Direct Suctions to the Engine Room Bilges,**
No. and size. *On 2", one 3 1/2" in ER. On 2" in BR.* 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. *Inlet valves on slab boxes.* Are they fitted with Valves or Cocks. *Both.*
 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*
 What Pipes pass through the bunkers. *None* How are they protected. *✓*
 What 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. *Part of ER.* Is it fitted with a watertight door. *✓* worked from. *✓*

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 1280 sq ft
Which Boilers are fitted with Forced Draft no Which Boilers are fitted with Superheaters none
No. and Description of Boilers 1 SE multiblar Working Pressure 200 lb
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 ✓ Main Boilers ✓ Auxiliary Boilers ✓ Donkey Boilers ✓
(If not state date of approval)
Superheaters ✓ General Pumping Arrangements 12.2.42. Oil fuel Burning Piping Arrangements 12.2.42.
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.

Manufacturer.



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Lloyd's Register
32-007438-0148
Foundation

007432-007438-0148

C606

During progress of work in shops - - { *See Birmingham Rpt. N° 37.*

Dates of Survey while building { 1942 JULY 8, DEC 23; 1943 JAN 14, 18, FEB 17, 23, 24, 26, MAR 1, 4, 8, 16, APRIL 11.

During erection on board vessel - - - {

Total No. of visits *13*

Dates of Examination of principal parts - Cylinders *See Birmingham Rpt. N° 37.* Slides Covers

Pistons Piston Rods Connecting rods

Crank shaft Thrust shaft Intermediate shafts ✓

Tube shaft ✓ Screw shaft *14.1.43* Propeller *14.1.43.*

Stern tube *14.1.43.* Engine and boiler seatings *14.1.43* Engines holding down bolts *17-2-43.*

Completion of fitting sea connections *18-3.43.*

Completion of pumping arrangements *8-3.43* Boilers fixed *17.2.43.* Engines tried under steam *8.3.43, 11.4.43*

Main boiler safety valves adjusted *4.3.43.* Thickness of adjusting washers *Both 11/32.*

Crank shaft material *See Birmingham Rpt. N° 37.* Identification Mark Thrust shaft material Identification Mark

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

Screw shaft, material *F. I. 5H.* Identification Mark *19.1.43 HDB* Steam Pipes, material *Steel* Test pressure *600 lb* Date of Test *1.3.43*

Is an installation fitted for burning oil fuel *Yes* Is the flash point of the oil to be used over 150° F. *Yes*

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

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo *Oil tanker* If so, have the requirements of the Rules been complied with *Yes*

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 *Yes* If so, state name of vessel *C605* *14th Rpt. N° 51818.*

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

*The machinery of this vessel has been installed in accordance with approved plan, the Rules & Admiralty requirements. The workmanship and materials are good. The machinery has been tested under working conditions and found satisfactory in every respect. Eligible to have record, when classed, * LMC 4,43. O.G. and the notation of T 3 Cy. 11', 18", 30" - 18". 68 NHP. 15B 200 lb 2 cf HS 1280. Fitted for oil fuel 4,43. FP above 150° F.*

The amount of Entry Fee ... £ : : When applied for, Special *1st E. (M) Part.* £ *2* - - *MAY 1943* 19

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

Committee's Minute *FRI. 14 MAY 1943*

Assigned *See je. mach. rpt.*

W. S. Shilao
Engineer Surveyor to Lloyd's Register of Shipping.