

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 30 JAN 1942

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 Ship Lyle VIC III. (Number of Visits 7)  
 Built at Thorne By whom built R. Durdon Ltd Yard No. 370 Tons Gross 96 Net 41  
 Engines made at Garmonth By whom made Crabtree (1931) Ltd Engine No. 627 When built 1942-1  
 Boilers made at Stocklin By whom made Stocklin C.E. & Pley, Ltd Boiler No. 6572 When made 46  
 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 App! as fitted 4 3/8" Crank pin dia. 4 3/8" Crank webs Mid. length breadth 1 shrunk Thickness parallel to axis 2 7/8" Mid. length thickness Thickness around eye-hole 2"  
 Intermediate Shafts, diameter as per Rule as fitted Thrust shaft, diameter at collars as per Rule as fitted 4 3/8"  
 Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule as fitted 4 7/8" Is the tube shaft fitted with a continuous liner No.  
 Bronze Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per Rule as fitted 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 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  
 Bilge Pumps worked from the Main Engines, No. " Diameter " Stroke " Can one be overhauled while the other is at work  
 Feed Pumps { No. and size { Steam Spigot { see also Pumps connected to the { No. and size One Parsons Water type 800 gals/hr. How driven { 1 1/2" Main Bilge Line { How driven { Steam (also for boiler feed).  
 Ballast Pumps, No. and size C/Yone Lubricating Oil Pumps, including Spare Pump, No. and size C/Yone  
 Are two independent means arranged for circulating water through the Oil Cooler C/Yone 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 tank 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 C/Yone How are they protected  
 That pipes pass through the deep tanks do. 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?

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

PLANS. Are approved plans forwarded herewith for Shafting 28.10.41 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.



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Lloyd's Register  
Foundation

005756-005778-0167



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  
Pistons  
Crank shaft  
Tube shaft  
Stern tube  
Completion of fitting sea connections  
Completion of pumping arrangements  
Main boiler safety valves adjusted  
Crank shaft material  
Intermediate shafts, material  
Screw shaft, material  
Is an installation fitted for burning oil fuel  
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 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  
General Remarks

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 ... £ : :  
Special ... £ 6 : 16 :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : :  
When applied for, 27 JAN 1942  
When received, 19

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
Assigned