

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 30.10.1944 When handed in at Local Office 29 DEC 1944 Port of Space Received at London Office 21 JAN 1945

No. in Survey held at Knottingly Gool Date, First Survey 15.8.44 Last Survey 3.11.1944
 Reg. Book VIC 81 A/MS 973 (Number of Visits 8) Tons (Gross 146.49 Net 51.47)
 Built at Knottingly By whom built John Harker Ltd. Yard No. 182 When built 1944
 Engines made at Beccles By whom made Elliott Garwood Engine No. 686 When made "
 Boilers made at Annan By whom made Cochran & Co (Annan) Ltd Boiler No. 16034 When made "
 Registered Horse Power " Owners Ministry of War Transport Port belonging to Good Hope
 Nom. Horse Power as per Rule 24 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No
 Trade for which vessel is intended Coastal Service

ENGINES, &c.—Description of Engines Steam reciprocating - compound Revs. per minute 120
 Dia. of Cylinders 10 1/2, 22 Length of Stroke 14 No. of Cylinders 2 No. of Cranks 2
 Crank shaft, dia. of journals as per Rule 4.13 as fitted 4 3/8 Crank pin dia. 4 3/8 Mid. length breadth " Thickness parallel to axis 2 1/8
 Crank webs " Mid. length thickness " shrunk " Thickness around eye-hole 2
 Intermediate Shafts, diameter as per Rule NONE as fitted " Thrust shaft, diameter at collars as per Rule 4.13 as fitted 4 3/8
 Tube Shafts, diameter as per Rule NONE as fitted " Screw Shaft, diameter as per Rule 4 7/8 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 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 Yes
 Propeller, dia. 66 Pitch 86 No. of Blades 4 Material C.I. whether Moveable Solid Total Developed Surface 11.6 sq. feet
 Feed Pumps worked from the Main Engines, No. 1 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. 1 Diameter 2 1/8 Stroke 6 Can one be overhauled while the other is at work Yes
 Feed Pumps { No. and size 1 as above 1 - Pearis 800 gal Pumps connected to the { No. and size 1 as above 1 - 5 1/4 x 4 3/4 x 5
 How driven ME Ind. Stm Main Bilge Line How driven ME Ind. Stm
 Ballast Pumps, No. and size 1 - 5 1/4 x 4 3/4 x 5 as above 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 1 - 2
 In Pump Room " In Hold, &c. 2 - 2

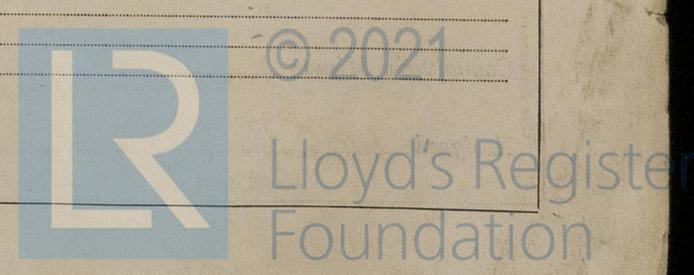
Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 - 2 Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 - 2
 Are all the Bilge Suction Pipes in hold and tunnel well fitted with strum-boxes Yes
 Are the Bilge Suctions in the Machinery Space led from easily 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 Cocks direct. Valves on steel 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 Yes
 What pipes pass through the deep tanks none Have they been tested as per Rule Yes
 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 it Is it fitted with a watertight door " worked from "

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers not stated in Glo. Rpt. No. 68373 5000
 Which Boilers are fitted with Forced Draft none Which Boilers are fitted with Superheaters none
 No. and Description of Boilers 1 Vertical Boiler Working Pressure 125 lb. 120 lb
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Vertical boiler - Glo Rpt No 68373 attached
 IS A DONKEY BOILER FITTED? Yes If so, is a report now forwarded? Yes
 Can the donkey boiler be used for domestic purposes only Yes

PLANS. Are approved plans forwarded herewith for Shafting 28.10.41 Main Boilers See Glo Rpt 68373 Auxiliary Boilers Yes Donkey Boilers Yes
 (If not state date of approval)
 Superheaters Yes General Pumping Arrangements 5.9.44 Oil fuel Burning Piping Arrangements Yes
 Machinery sliping Arrgt for 30' Coastal Lighter 12.12.43
 SPARE GEAR.
 Has the spare gear required by the Rules been supplied Please note - No spare gear supplied
 State the principal additional spare gear supplied none

The foregoing is a correct description.

Manufacturer.



Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

1944 AUG 15 SEP 11, 21, OCT 16, 17, 18, 26. NOV 3

Total No. of visits 8

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 15.8.44

Stern tube 15.8.44 Engine and boiler seatings 11.9.44 Engines holding down bolts 21.9.44

Completion of fitting sea connections 15.8.44

Completion of pumping arrangements 16.10.44 Boilers fixed 21.9.44 Engines tried under steam 17.10.44

Main boiler safety valves adjusted 16.10.44 Thickness of adjusting washers F 11/32 A 10/32

Crank shaft material Identification Mark Thrust shaft material Identification Mark

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

Screw shaft, material Identification Mark Steam Pipes, material Copper Test pressure 250 lb Date of Test 16.9.44

Is an installation fitted for burning oil fuel No 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 No

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No 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.)

The above machinery installed in Vic 81 at Knottingley and Hook in accordance with the specification, the Rules, the Secretary's letters and approved plans. The materials and workmanship are good. Machinery tried under working conditions and found satisfactory. Eligible in my opinion to be classed LMC 11,44 O.G. C 2 cyl 10 1/2" x 22" - 14" NHP 24 1 Vertical Boiler 125 lb G.S. 27 # H.S 500 #.

L. S. d.

Total fee £ 19-0-0

ME 8-0-0

Boiler 5-5-0

Balance F.O. 5-15-0

The amount of Entry Fee ... £ : : When applied for, 21 DEC 1944

Special Balance for F.O. ... £ 5 15 : : When received,

Donkey Boiler Fee ... £ : : 19

Travelling Expenses (if any) £ : : 19

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

Committee's Minute ... FRI, 16 FEB 1945

Assigned ... LMC 11,44 O.G.
1 Vertical boiler WP. 12016



Certificate to be sent to

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

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