

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 10 SEP 1945

Date of writing Report 19 13 SEP 1945 19 1945 Port of Hull
 No. in Survey held at Thorn Date, First Survey 13.3.45 Last Survey 2.7.45
 Reg. Book AMS 1073 (Number of Visits 13) Tons {Gross 146.49
 on the Steam Coaster Lighter Vic 95 Net 51.47
 Built at Thorn By whom built Richard Denton L^d Yard No. T 577 When built 1945
 Engines made at Beebles By whom made Elliot Garrod Engine No. 692 When made 1
 Boilers made at Annan By whom made Bochran & Co (Annan) L^d Boiler No. 16046 When made 1
 Registered Horse Power _____ Owners Ministry of War Transport Port belonging to Hull
managed by Hester Tottel & Wilson
 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 Compound Reciprocating See Spanish Rpt. No 112694 Revs. per minute 150
 Dia. of Cylinders 10 1/2" / 22" Length of Stroke 14" No. of Cylinders Two No. of Cranks Two
 Crank shaft, dia. of journals as per Rule 4.13 Crank pin dia. 4 3/8" Mid. length breadth shrunk Thickness parallel to axis 2 1/8"
as fitted 4 3/8" Crank webs shrunk Thickness around eye-hole 2"
 Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule 4.26
as fitted as fitted 4 3/8"
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 4 7/8" Is the {tube screw} shaft fitted with a continuous liner {No}
as fitted as fitted 4 7/8"
 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
as fitted as fitted 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 Yes If so, state type Crofton Length of Bearing in Stern Bush next to and supporting propeller 20"
 Propeller, dia. 66" Pitch 86" No. of Blades 4 Material C1 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. One 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 Plains 800 gals/hr Pumps connected to the {No. and size 1 as above. 1 off 5 1/4" x 4 3/4" x 5"
 {How driven MR Ind Strm Main Bilge Line {How driven ME Ind Strm
 Ballast Pumps, No. and size 1 off 5 1/4" x 4 3/4" x 5" as above Lubricating Oil Pumps, including Spare Pump, No. and size Yes
 Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps:—In Engine and Boiler Room 1-2"
 In Pump Room Yes In Holds, &c. 1-2"

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 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 Valves on reduced plate 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 None
 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 Tunnel part Eng. Room Is it fitted with a watertight door Yes worked from Yes

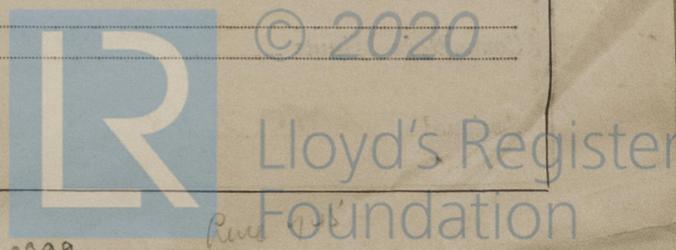
MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 525 sq ft
 Which Boilers are fitted with Forced Draft None Which Boilers are fitted with Superheaters None
 No. and Description of Boilers One vertical boiler Working Pressure 125 lb 120 lb
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 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 30-11-43 Auxiliary Boilers Yes Donkey Boilers Yes
 (If not state date of approval)
 Superheaters Yes General Pumping Arrangements 8.5.44 Oil fuel Burning Piping Arrangements Yes

SPARE GEAR.
 Has the spare gear required by the Rules been supplied Only spare propeller supplied.
 State the principal additional spare gear supplied None

The foregoing is a correct description.

Manufacturer.



"Vic 95"

During progress of work in shops - - - See Spanish Report No 112694

Dates of Survey while building During erection on board vessel - - - { 1945 MAR 13, 19, 21, 26, 28, AP 5, 11, 17, 23, MY 23, JUN 12, 25, JUL 2, 1945

Total No. of visits... 13

Dates of Examination of principal parts - Cylinders... Slides... Covers...

Pistons... Piston Rods... Connecting rods... 112694

Crank shaft... Thrust shaft... Intermediate shafts... 112694

Tube shaft... Screw shaft... Propeller... 28.3.45

Stern tube... Engine and boiler seatings... Engines holding down bolts... 28.3.45

Completion of fitting sea connections... 28.3.45

Completion of pumping arrangements... Boilers fixed... Engines tried under steam... 25.6.45

Main boiler safety valves adjusted... Thickness of adjusting washers... F 15/32 A 33/64

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... 300 lb... Date of Test... 12.6.45

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... ✓

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... Yes... If so, state name of vessel... VIC 94

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

The above machinery was installed in Vic 95 at Thorn 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 our opinion to be classed LMC 7,45. O.G.

C 2 Cy. 10 1/2" x 22" - 14" 24NHP.

One vertical boiler 120 lb GS 25 φ HS 525 φ.

I o d.

Total fee 19-0-0

M. E 8-0-0 already charged

Boiler 4-4-0

Balance for fitting out 6-16-0

The amount of Entry Fee ... £ : : } When applied for,

Balance for fitting out Special ... £ 6-16-0 } SEP 1945

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

Travelling Expenses (if any) £ : : } 19

W. Shields & J. McLean
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute ... FRI, 21 SEP 1945

Assigned ... LMC 7,45
O.G.



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