

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 19 When handed in at Local Office 4 FEB 1943 19 Port of Hull

No. in Survey held at Hessel Hull Date, First Survey 2. 10. 42. Last Survey 14. 1. 1943.
Reg. Book (Number of Visits 13.)

on the Single Screw Eng "EMPIRE OBERON" Tons { Gross 242
Net Nil

Built at Hessel By whom built Henry Scarf & Co. Yard No. S. 424 When built 1943

Engines made at Bury By whom made Walmolys's (Bury) Ltd. Engine No. 5959/2 When made "

Boilers made at Hull By whom made Charles D. Holmes Ltd. Boiler No. 1604 When made "

Registered Horse Power Owners Ministry of War Transport Port belonging to

Nom. Horse Power as per Rule 177 185 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which vessel is intended Towing Services

ENGINES, &c.—Description of Engines Triple Exp. Ste. Recip. - See Manchester Rpt. No. 11268. Revs. per minute 114

Dia. of Cylinders 16 1/2", 27", 46" Length of Stroke 30" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule as fitted 9.25" Crank pin dia. 9.375" Crank webs Mid. length breadth 17.5" Thickness parallel to axis 6" shrunk Mid. length thickness 6" Thickness around eye-hole 4"

Intermediate Shafts, diameter as per Rule as fitted Thrust shaft, diameter at collars as per Rule as fitted

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 9.7" as fitted 9 3/8" Is the { tube } shaft fitted with a continuous liner { screw } 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

Shaft YES If so, state type NEWARK Length of Bearing in Stern Bush next to and supporting propeller 42"

Propeller, dia. 11'-0" Pitch 11'-8" No. of Blades 4 Material C.I. whether Moveable Solid Total Developed Surface 46 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 15" Can one be overhauled while the other is at work YES

Bilge Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 15" Can one be overhauled while the other is at work YES

Feed Pumps { No. and size One 7' x 7' x 8" duplex How driven Independent Steam Pumps connected to the Main Bilge Line { No. and size 2-3' x 15' } One 7' x 7' x 8" duplex How driven ME Independent Steam

Ballast Pumps, No. and size One 7' x 7' x 8" duplex Lubricating Oil Pumps, including Spare Pump, No. and size None

Are two independent means arranged for circulating water through the Oil Cooler None Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps:—In Engine and Boiler Room 2 at 2" & 2 at 2 1/4"

In Pump Room Yes In Holds, &c. One 2" in each of the following - Forepeak, forward bilge, after peak.

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 5 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One 2 1/4" One 2 1/4" 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 YES 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 ENGINE ROOM Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2778 sq. ft.

Which Boilers are fitted with Forced Draft ONLY ONE Which Boilers are fitted with Superheaters NONE

No. and Description of Boilers ONE SINGLE ENDED MULTITUBULAR Working Pressure 210 lb

IS A REPORT ON MAIN BOILERS NOW FORWARDED? YES

IS A DONKEY BOILER FITTED? NO 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 3-1-41 Main Boilers 8-8-40 Auxiliary Boilers. Yes Donkey Boilers. Yes

(If not state date of approval)

Superheaters Yes General Pumping Arrangements 1-11-40 Oil fuel Burning Piping Arrangements Yes

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

002568-002576-0176

"EMPIRE OBERON"

See Manchester Report No

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

Slides

Covers

Pistons

Piston Rods

Connecting rods

Crank shaft

Thrust shaft

Intermediate shafts

Tube shaft

Screw shaft

Propeller

Stern tube

Engine and boiler seatings

Engines holding down bolts

Completion of fitting sea connections

Completion of pumping arrangements

Main boiler safety valves adjusted

Boilers fixed

Engines tried under steam

Thickness of adjusting washers

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

Test pressure

Date of Test

Is an installation fitted for burning oil fuel

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

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 machinery noted above has been installed on board EMPIRE OBERON in accordance with the Rules, approved plans & to the Specification.

The workmanship and materials are good and when tested as prescribed in the Rules & Specification the machinery was found satisfactory in every respect.

Eligible to have record of * LMC 1.43. O.G. and notation of T. 3 cy. 16'2", 27", 46" - 30". NHP177. 15B. 210#. 3cf. F.D. G.S. 64 # H.S. 2778 #

The amount of Entry Fee

Special (REMAINDER)

Donkey Boiler Fee

Travelling Expenses (if any)

When applied for

When received

W. S. Shields

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned