

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

15 SEP 1941

Date of writing Report

19

When handed in at Local Office

SEP 1941

Port of

No. in Survey held at
Reg. Book.

Date, First Survey 28.4.41 Last Survey 1-9-1941

(Number of Visits 12)

on the S.S. Tug.

EMPIRE MAPLE

Built at Thorne

By whom built

R. Dunston & Co.

Yard No. 1358

Tons { Gross 129
Net Nil.

When built 1941-9

Engines made at Paisley

By whom made McFie & Baxter & Co.

Engine No. 1327

When made 1941-9

Boilers made at Glasgow

By whom made John Thompson (Marine Engs) & Co.

Boiler No. 5156

When made 1941-9

Registered Horse Power

Owners Ministry of Shipping

Port belonging to

Nom. Horse Power as per Rule 85.

Is Refrigerating Machinery fitted for cargo purposes No.

Is Electric Light fitted Yes.

Trade for which Vessel is intended Young Service

ENGINES, &c.—Description of Engines Triple Expansion

Dia. of Cylinders 12"-20"-32" Length of Stroke 22" No. of Cylinders 3 Revs. per minute 140.

Crank shaft, dia. of journals as per Rule 6.44 as fitted 6 1/2" Crank pin dia. 6 1/2" Crank webs Mid. length breadth shrunk Thickness parallel to axis 4 1/8"

Intermediate Shafts, diameter as per Rule 6.13 as fitted 6 1/4" Thrust shaft, diameter at collars as per Rule 6.44 as fitted 6 1/2" Thickness around eye-hole 2 1/8" pins

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 7.12 as fitted 7 1/8" 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

a t Yes. If so, state type Newark type Length of Bearing in Stern Bush next to and supporting propeller 29"

Propeller, dia. 8'3" Pitch 10'0" No. of Blades 4 Material C.I. whether Moveable Solid Total Developed Surface 24. sq. feet

Feed Pumps worked from the Main Engines, No. One Diameter 2 1/2" Stroke 12 Can one be overhauled while the other is at work Yes

Bilge Pumps worked from the Main Engines, No. One Diameter 2 1/2" Stroke 12 Can one be overhauled while the other is at work Yes

Feed Pumps { No. and size One 6" x 4 1/2" x 10" Pumps connected to the Main Bilge Line { No. and size One General Service 5" x 3 1/2" x 6"

Ballast Pumps, No. and size None Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler

Bilge Pumps;—In Engine and Boiler Room Eng. Pm - 1 1/2" dia., B.P. Pm 1 1/2" dia.; also Independent direct sea bilge.

In Pump Room Bunker Tunnel. 1 1/2" dia. In Holds, &c. Fore & Aft Compartment one

Each 2 1/2" dia. At the request of M.O.S. Peak Sections have been removed. The Bulkheads have chain valves fitted to them

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 Eng. Pm 1 1/2" dia. 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 lead 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 stowhold plates Yes Are the Overboard Discharges above or below the deep water line at W.L.

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 None 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 Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 1356 sq. ft.

Which Boilers are fitted with Forced Draft Yes

Which Boilers are fitted with Superheaters No

No. and Description of Boilers One S.B.

Working Pressure 200 lbs/sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

IS A DONKEY BOILER FITTED? None

If so, is a report now forwarded? Yes

Can the donkey boiler be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting 29.11.39. Main Boilers 6.11.39 Auxiliary Boilers Donkey Boilers

Superheaters General Pumping Arrangements 17.3.41

Oil fuel Burning Piping Arrangements

SPARE GEAR.

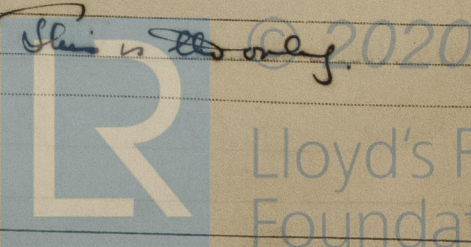
Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied See list attached to Glasgow Rpt.

* Stoke hole mud boxes are under removable floor plates.
machined position

The foregoing is a correct description.

Manufacturer.



007993-00007-0105

During progress of work in shops - - -

Dates of Survey while building

During erection on board vessel - - -

Total No. of visits 12.

1941 - Apr. 28. May. 9. 29. June 5. 17. July 20. 23. 28. Aug. 6. 16. 29. Sep. 1.

Dates of Examination of principal parts - Cylinders G/R Rpt Slides G/R Rpt Covers G/R Rpt

Pistons G/R Rpt Piston Rods G/R Rpt Connecting rods G/R Rpt

Crank shaft G/R Rpt Thrust shaft G/R Rpt Intermediate shafts G/R Rpt 28.7.41

Tube shaft G/R Rpt Screw shaft G/R Rpt 9.5.41 Propeller 9.5.41

Stern tube G/R Rpt 28.7.41 Engine and boiler seatings 9.5.41 Engines holding down bolts 28.7.41

Completion of fitting sea connections 9.5.41

Completion of pumping arrangements 1-9.41 Boilers fixed 28.7.41 Engines tried under steam 29-8-41

Main boiler safety valves adjusted 29-8-41 Thickness of adjusting washers Port 7/16" Star 15/32"

Crank shaft material Steel Identification Mark 9922 G.A.L. Thrust shaft material Steel Identification Mark 5568 GAL 14.5.41 JFC. 22.4.41

Intermediate shafts, material Steel Identification Marks 5558 GAL 14.5.41 JFC. 14.2.41 Tube shaft, material Steel Identification Mark 5557 GAL 14.5.41 JFC. 14.2.41

Screw shaft, material Steel Identification Mark 5557 GAL 14.5.41 JFC. 14.2.41 Steam Pipes, material Steel Test pressure 600 lb/sq. in. Date of Test 23.7.41 6.8.41

Is an installation fitted for burning oil fuel CYO 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 CYO 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 CYO required

Is this machinery duplicate of a previous case CYO If so, state name of vessel ✓

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

The Machinery of this Vessel has been constructed & fitted on board under Special Survey in accordance with the approved plans, the Society's Rules & the Specifications. The workmanship & materials are good & when tried under working conditions it was found satisfactory in every respect.

It is eligible, in my opinion, when the vessel is classed to have the records of L.M.C. 9.41.09. & the notations T. 3 Cy. 12"-20"-32" - 22" 85 NHP. 200 lbs I.S.B. 2 Cf. G.S. 37. H.S. 1356 F.D.

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

1/5 Special ... £ 4 : 5 : 13 SEP 1941

Balance of 25% of Transfer ... £ 3 : 6/3 : When received,

Donkey Boiler Fee ... £ : : 19.

Travelling Expenses (if any) £ : :

Committee's Minute

TUE 30 SEP 1941

Assigned

+ LMC 9.41 F.D. 09.

D. J. J. J.

Engineer Surveyor to Lloyd's Register of Shipping.



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