

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report

19

When handed in at Local Office

24 JAN 1942

Port of HULL.

Received at London Office

27 JAN 1942

No. in Survey held at HULL.

Reg. Book.

Date, First Survey 12.2.41 Last Survey 10.12.1941

on the EMPIRE BIRCH

(Number of Visits 45)

Gross 250.

Built at HESSLE

By whom built Richard Dunstan & Co.

Yard No. 418.

Tons Net

When built 1941-12

Engines made at HULL

By whom made Messrs. Chas. D. Holmes & Co.

Engine No. 1577

When made 1941-12

Boilers made at HULL

By whom made Messrs. Chas. D. Holmes & Co.

Boiler No. 1577

When made 1941-12

Registered Horse Power

Owners The Ministry of War Transport.

Port belonging to

Nom. Horse Power as per Rule 177-

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 EXPANSION.

Dia. of Cylinders 16" - 26" - 43" Length of Stroke 30" No. of Cylinders 3. Revs. per minute 5 3/4"
 Crank shaft, dia. of journals as per Rule 8.8. Crank pin dia. 9.125. Crank webs Mid. length breadth 5 3/4"
 as fitted 9.125. Mid. length thickness 4 1/2"
 Intermediate Shafts, diameter as per Rule 8.375. Thrust shaft, diameter at collars as per Rule 8.8.
 as fitted 8.625. as fitted 9 1/8"
 Tube Shafts, diameter as per Rule 9.695. Screw Shaft, diameter as per Rule 9.875. Is the screw shaft fitted with a continuous liner No.
 as fitted 9.875. Is the after end of the liner made watertight in the propeller boss Yes.
 Bronze Liners, thickness in way of bushes as per Rule 3/16. Thickness between bushes as fitted 3/16. 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.
 If so, state type NEWARK No. 1. Is an approved Oil Gland or other appliance fitted at the after end of the tube Yes.
 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 18" Can one be overhauled while the other is at work Yes.
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 18" Can one be overhauled while the other is at work Yes.
 Feed Pumps { No. and size One 7" x 5" x 6" Duplex. Pumps connected to the { No. and size 2 @ 3" x 18" One 7" x 7" x 8" Duplex.
 How driven Independent Pressure Main Bilge Line How driven Main Eng. Independent Pressure.
 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 @ 2" 2 @ 2 1/4" 1 @ 2" in Rummel between Bunkers
 In Pump Room In Holds, &c. Fore peak. Ford. Bilge. Aft Peak. 2" in each

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" One @ 2 1/4" 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 No. 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 NONE. Is it fitted with a watertight door worked from Yes.

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

Which Boilers are fitted with Forced Draft All

Which Boilers are fitted with Superheaters NONE

No. and Description of Boilers 1 SB.

Working Pressure 210 lbs./sq. in.

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 S. 1. 41 Main Boilers S. P. 40 Auxiliary Boilers Donkey Boilers

Superheaters

General Pumping Arrangements 1-11-40.

Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied. Yes - short royals.

State the principal additional spare gear supplied.

Out for as per Specification.

The foregoing is a correct description.

FOR CHARLES D. HOLMES & CO., LTD.

Manufacturer.

W1185-0014

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Lloyd's Register
Foundation

Rpt. 5a.

Date of writing _____

No. in
Reg. Book.

Built at

Engines ma

Boilers ma

~~Nominal~~ L

MULTI

15. *Centropomus*

Total Heat

No. and 1

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In case of

Smallest c

18

Thickness

long, seam

Percentae

18

Length o

Dimensio

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Girders

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This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some minor creases and discoloration, characteristic of old paper. The left edge of the page shows the binding of the book.

Screw

Diamete

18

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10

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