

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 19 When handed in at Local Office 19 19 Port of Hull
 No. in Survey held at Hull & Selby Date, First Survey 15.9.44 Last Survey 28.8.1945
 Reg. Book on the Steam Tug "EMPIRE FLORA" A/MS 1078 (Number of Visits 32) Tons { Gross 292.15
 Built at Selby Hull By whom built Cochran & Sons Ltd. Yard No. 1297 When built 1945
 Engines made at Providence Rhode I USA By whom made Franklin Machine & Foundry Co. Engine No. 1015 When made 1943
 Boilers made at Stockton on Tees By whom made Stockton Chemical Eng & Boiler No. 6617 When made 1945
 Registered Horse Power 109 Owners Ministry of War Transport Port belonging to Hull
 Nom. Horse Power as per Rule 109 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES
 Trade for which vessel is intended Towing Services

GINES, &c.—Description of Engines Triple expansion Revs. per minute 130
 Dia. of Cylinders 12" 20" 33" Length of Stroke 24" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals 7 3/4" Crank pin dia. 7 3/4" Mid. length breadth 15 1/2" Thickness parallel to axis shrunk
 as per Rule 7 3/4" as fitted 7 3/4" Mid. length thickness 5 1/8" Thickness around eye-hole shrunk
 Intermediate Shafts, diameter 6 5/8" Thrust shaft, diameter at collars 8 1/2"
 as per Rule 6 5/8" as fitted 8 1/2"
 Tube Shafts, diameter as per Rule Screw Shaft, diameter 8" Is the { tube } shaft fitted with a continuous liner { No }
 as fitted as per Rule as fitted 8" as fitted as per Rule
 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 per Rule as fitted as per Rule as fitted as per Rule
 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 ✓
 Propeller, dia. 9'0" Pitch 9'6" No. of Blades 4 Material Cast iron whether Moveable No Length of Bearing in Stern Bush next to and supporting propeller 2' 7 1/2"
 Total Developed Surface 31.5 sq. feet
 Feed Pumps worked from the Main Engines, No. None Diameter ✓ Stroke ✓ Can one be overhauled while the other is at work ✓
 Bilge Pumps worked from the Main Engines, No. None Diameter ✓ Stroke ✓ Can one be overhauled while the other is at work ✓
 Feed Pumps { No. and size Two 7' x 5' x 12' Pumps connected to the { No. and size One 7 1/2' x 5' x 6' One 12' x 9' x 12' }
 How driven Ind. Stm. Main Bilge Line { How driven Ind. Stm. Ind. Stm. }
 Ballast Pumps, No. and size as above 1 - 7 1/2' x 5' x 6' Lubricating Oil Pumps, including Spare Pump, No. and size 1 - 2 1/2' }
 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 ER: 3 - 2 1/2", 1 - 3" BR 2 - 2 1/2"
 In Pump Room ✓ In Holds, &c. 1 - 2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 - 4" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size 1 - 3" 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
 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
 Hat Pipes pass through the bunkers NONE How are they protected ✓
 Hat 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 Part of ER Is it fitted with a watertight door ✓ worked from ✓

IN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 1786 φ
 Which Boilers are fitted with Forced Draft SOLE BOILER Which Boilers are fitted with Superheaters NONE
 and Description of Boilers 1 SB Working Pressure 220 lb.

A REPORT ON MAIN BOILERS NOW FORWARDED? YES
 A DONKEY BOILER FITTED? ✓ If so, is a report now forwarded? ✓
 Is the donkey boiler be used for domestic purposes only ✓

PLANS. Are approved plans forwarded herewith for Shafting 25.7.44 Main Boilers 21.10.41 Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)

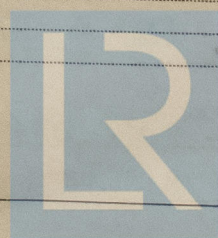
Superheaters ✓ General Pumping Arrangements 19.7.44 Oil fuel Burning Piping Arrangements 11.5.45

SPARE GEAR.
 Is the spare gear required by the Rules been supplied As per specification
 Is the principal additional spare gear supplied As per specification

The foregoing is a correct description.

Manufacturer.

009570-009579-0073



© 2021

Lloyd's Register
Foundation

