

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 When handed in at Local Office 19 Port of WIGAN
 No. in Survey held at Reg. Book 20/8/41 Date, First Survey 29/10/1942 Last Survey
 on the EMPIRE HARRY (Number of Visits 49)
 Built at GOOLE By whom built GOOLE SHIPBUILDING + REPAIR Yard No. 387 Tons Gross
 Engines made at WIGAN By whom made WALKER BROS Engine No. 43290 When built 1942
 Boilers made at By whom made Boiler No. When made
 Registered Horse Power 197 Owners. Port belonging to
 Nom. Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 Trade for which vessel is intended

ENGINES, &c.—Description of Engines TRIPLE EXPANSION INVERTED CYLINDER Revs. per minute 113 1/2
 Dia. of Cylinders 16 1/2" x 24" x 46" Length of Stroke 30" No. of Cylinders THREE No. of Cranks THREE
 Crank shaft, dia. of journals as per Rule 9-0" 9-093 as fitted 9-25" Crank pin dia. 9 3/8" Mid. length breadth 17 1/2" Thickness parallel to axis 6"
 Crank webs Mid. length thickness 6" shrunk Thickness around eye-hole 4"
 Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule
 Tube Shafts, diameter as fitted Screw Shaft, diameter as fitted Is the tube shaft fitted with a continuous liner
 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 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
 at If so, state type Length of Bearing in Stern Bush next to and supporting propeller
 Propeller, dia. Pitch No. of Blades Material whether Moveable Total Developed Surface 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 NO
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 15" Can one be overhauled while the other is at work NO
 Feed Pumps No. and size Pumps connected to the Main Bilge Line No. and size
 How driven Lubricating Oil Pumps, including Spare Pump, No. and size
 Ballast Pumps, No. and size Are two independent means arranged for circulating water through the Oil Cooler Sections, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps:—In Engine and Boiler Room In Pump Room In Holds, &c.
 Main Water Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes
 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
 Are all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates 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 Are the Blow Off Cocks fitted with a spigot and brass covering plate
 What Pipes pass through the bunkers How are they protected
 What pipes pass through the deep tanks 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
 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 Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

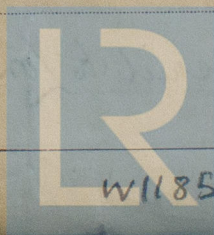
MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers
 Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters
 No. and Description of Boilers Working Pressure
 IS A REPORT ON MAIN BOILERS NOW FORWARDED?
 IS A DONKEY BOILER FITTED? If so, is a report now forwarded?
 Can the donkey boiler be used for domestic purposes only
 PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 Superheaters General Pumping Arrangements 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

The foregoing is a correct description.

Manufacturer.



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