

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19... When handed in at Local Office 11 MAY 1948 Port of NEWCASTLE-ON-TYNE
 No. in Survey held at Blyth Date, First Survey 25th March 1948 Last Survey 13th April 1948
 Reg. Book 38711 on the steel s.s. steamer "WATSON FERRIS" (Number of Visits 10)
 Built at Superior, Wisconsin By whom built Walter Butler Shipbuilders, Inc. Yard No. 115 When built 1943
 Engines made at Menominee, Mich. U.S.A. By whom made Prescott Company Engine No. When made 1943
 Boilers made at Saginaw, U.S.A. By whom made Wickes Boiler Co Boiler No. When made
 Registered Horse Power 1300 Owners Ministry of Transport, on lease charter from U.S.M.C. Port belonging to London
 Nom. Horse Power as per Rule 330 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted yes
 Trade for which vessel is intended Baltic - coasting.

ENGINES, &c.—Description of Engines Triple expansion
 Dia. of Cylinders 19"; 32"; 56" Length of Stroke 36" No. of Cylinders 3 Revs. per minute 80
 Crank shaft, dia. of journals as per Rule 10.45" Crank pin dia. 11 1/4" Mid. length breadth ✓ Thickness parallel to axis 6" 7" 7 3/4"
 as fitted 10.75" Crank webs Mid. length thickness ✓ shrunk PMS 5 7/8" JOURNALS 5 3/8"
 Intermediate Shafts, diameter as per Rule 9.94" Thrust shaft, diameter at collars as per Rule 10.45"
 as fitted 10.0" as fitted 10.75"
 Tube Shafts, diameter as per Rule ✓ Screw Shaft, diameter as per Rule hot branned Is the tube screw shaft fitted with a continuous liner ✓
 as fitted ✓ as fitted ✓
 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 yes
 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. 13.5 ft. Pitch 16.875 ft. No. of Blades 4 Material MAN-BRONZE whether Moveable no Total Developed Surface ✓ 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 3. { 7x10x12
 { 6x9x12
 { 6x8x12
 How driven Steam Pumps connected to the Main Bilge Line { No. and size 3 @ 2 1/2" x 8 1/2" x 10" & 1 @ 5x10x12
 { How driven steam
 Ballast Pumps, No. and size 2 @ 7 1/2" x 8 1/2" x 10" Lubricating Oil Pumps, including Spare Pump, No. and size none
 Are two independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected both to Main Bilge Pumps and Auxiliary
 Bilge Pumps:—In Engine and Boiler Room 5 i.e. 4 @ 2 1/2" & 1 @ 2" In Pump Room ✓ In Holds, &c. 2 @ 3" in fore hold; 1 @ 3" in aft hold

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 - 8" dia Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges, No. and size 2 @ 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 no (stumps)
 Are all Sea Connections fitted direct on the skin of the ship no Are they fitted with Valves or Cocks valves
 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 below
 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 no
 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 yes Is it fitted with a watertight door yes worked from upper deck

MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers 4800 sq. ft. + 82 sq. ft.
 Which Boilers are fitted with Forced Draft Both - Induced Which Boilers are fitted with Superheaters Both.
 No. and Description of Boilers 2 - Watertube - 3 drum type Design Working Pressure 250 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? ✓
 Can the donkey boiler be used for other than domestic purposes ✓

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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W1029-0069

