

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report 18-6-1926 When handed in at Local Office 21-6-1926 Port of Middlesbrough
 No. in Survey held at Stockton Date, First Survey 19 April Last Survey 21-6-1926
 Reg. Book. on the s/s "C. C. Mengel Jr." (Number of Visits 9)
 Built at Chester By whom built Messrs J. Crichton & Co Yard No. 430 Tons { Gross / Net }
 Engines made at Stockton By whom made Harker & Sons Engine No. 264 when made 1926
 Boilers made at Stockton By whom made Messrs Riley, Curd & Co Boiler No. 5669 when made 1926
 Registered Horse Power 71 Owners J. C. Mengel Jr. Port belonging to Stockton
 Nom. Horse Power as per Rule 21 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No
 Trade for which Vessel is intended Passenger

ENGINES, &c.—Description of Engines Compound Revs. per minute 190
 Dia. of Cylinders 10" & 20" Length of Stroke 14" No. of Cylinders 2 No. of Cranks 2
 Crank shaft, dia. of journals as per Rule 4.05" as fitted 4.375" Crank pin dia. 4.375" Crank webs Mid. length breadth 5 3/8" x 2 1/4" Thickness parallel to axis shrunk
 Intermediate Shafts, diameter as per Rule 3.86" as fitted 4.125" Thrust shaft, diameter at collars as per Rule 4.05" as fitted 4.375"
 Tube Shafts, diameter as per Rule 4.37" as fitted 4.56" Is the tube shaft fitted with a continuous liner No
 Screw Shaft, diameter as per Rule 4.37" as fitted 4.56" Is the screw 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 No liner
 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 Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft Yes
 Propeller, dia. 4'-3" Pitch 5'-6" No. of Blades 4 Material CI whether Moveable No Total Developed Surface 9 1/2 sq. feet
 Feed Pumps worked from the Main Engines, No. 1 Diameter 2" Stroke 7" Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. 1 Diameter 2" Stroke 7" Can one be overhauled while the other is at work Yes
 Feed Pumps { No. and size (1) Duplex 4 1/2" x 2 3/4" x 4" Pumps connected to the { No. and size (1) Duplex 4 1/2" x 2 3/4" x 4"
 How driven Steam Main Bilge Line How driven Steam
 Ballast Pumps, No. and size as fitted Lubricating Oil Pumps, including Spare Pump, No. and size as fitted
 Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room Yes
 Holds, &c. as fitted

Main Water Circulating Pump Direct Bilge Suctions, No. and size as fitted Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size as fitted
 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 Yes
 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 Yes
 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
 How are they protected as fitted
 How are they protected as fitted
 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 Yes Is it fitted with a watertight door Yes worked from as fitted

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boiler 440 sq
 Forced Draft fitted No No. and Description of Boilers One Horizontal (L.P.F.) Working Pressure 130 lbs
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? Yes
 PLANS. Are approved plans forwarded herewith for Shafting E 28/4/26 Main Boilers Yes Auxiliary Boilers None Donkey Boilers Yes
 Superheaters Yes General Pumping Arrangements as fitted Oil fuel Burning Piping Arrangements as fitted

SPARE GEAR. State the articles supplied:— One propeller, 2 top end bolts & nuts, 2 bottom end bolts and nuts, 2 main bearing bolts & nuts, 1 set of coupling bolts, one set of feed pump valves, one set of bilge pump valves, one set of air pump valves, one set of circulating pump valves. Bolts & nuts. Iron of various sizes

The foregoing is a correct description,
C. Harker. p.p. Harker & Sons. Manufacturer.



