

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 27.3.31 When handed in at Local Office 27.3.31 Port of MIDDLESBROUGH.
 No. in Survey held at STOCKTON. Date, First Survey 4 June Last Survey 26.3.1931.
 Reg. Book. on the s.s. "DULWICH" (Number of Visits 44) Gross 4040 Tons Net 2443.
 Built at Stockton By whom built Smiths Dock Co. Ltd. Yard No. 923. When built 1931.
 Engines made at do. By whom made Blair Co. (1926) Ltd. Engine No. 1988. When made 1931.
 Boilers made at do. By whom made do. Boiler No. 1988. When made 1931.
 Registered Horse Power Owners Britain S.S. Co. Ltd. Port belonging to London.
 Nom. Horse Power as per Rule 368.2. Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted Y.
 Trade for which Vessel is intended General Cargo

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 65.
 Dia. of Cylinders 28½", 40½", 67" Length of Stroke 48" No. of Cylinders 3. No. of Cranks 3.
 Crank shaft, dia. of journals as per Rule 12.56 as fitted 13½" Crank pin dia. 14" Crank webs Mid. length breadth 1'-10¼" Thickness parallel to axis 9" shrunk Thickness around eye-hole 6½"
 Intermediate Shafts, diameter as per Rule 11.96 as fitted 13" Thrust shaft, diameter at collars as per Rule 12.56 as fitted 14"
 Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 13.36 as fitted 15" Is the tube shaft fitted with a continuous liner Yes
 Bronze Liners, thickness in way of bushes as per Rule 5.44 as fitted 3" Thickness between bushes as per Rule 3.2 as fitted 8" Is the after end of the liner made watertight in the propeller boss Y. If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Y.
 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 Y.
 If two liners are fitted, is the shaft lapped or protected between the liners Y. Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft no. If so, state type Y. Length of Bearing in Stern Bush next to and supporting propeller 5'-2"
 Propeller, dia. 16'-9" Pitch 16'-9" No. of Blades 4 Material Bronze whether Moveable no. Total Developed Surface 92 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 3½" Stroke 33" Can one be overhauled while the other is at work Y.
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 3½" Stroke 33" Can one be overhauled while the other is at work Y.
 Feed Pumps No. and size 2-8½" x 6" x 18" Weir (Steam) Pumps connected to the No. and size 2-8" x 9" x 8" Lamont Duplex.
 How driven 2-7" x 5" x 8" Lamont Duplex Main Bilge Line How driven Steam
 Ballast Pumps, No. and size 2-8" x 9" x 8" Lamont Duplex Lubricating Oil Pumps, including Spare Pump, No. and size Y.
 Are two independent means arranged for circulating water through the Oil Cooler Y. Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 3-2½"; 1-2" in Tunnel; 1-2½" in Tunnel Well.
 In Pump Room Y. In Holds, &c. No. 1: 2-3"; No. 2: 2-3"; No. 4: 2-2½"; No. 5: 2-2½".

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-7" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1-4½"
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Y. or have with perforated covers Y.
 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 Y.
 Are all Sea Connections fitted direct on the skin of the ship Y. Are they fitted with Valves or Cocks both Y.
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Y. Are the Overboard Discharges above or below the deep water line above Y.
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Y. Are the Blow Off Cocks fitted with a spigot and brass covering plate Y.
 What Pipes pass through the bunkers Forward Bilge Suctions How are they protected wood casings
 What pipes pass through the deep tanks none Have they been tested as per Rule Y.
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Y.
 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 Y. Is the Shaft Tunnel watertight Y. Is it fitted with a watertight door Y. worked from E.R. entrance main deck level.

MAIN BOILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 6173 sq. ft.
 Is Forced Draft fitted no. No. and Description of Boilers 3 S.B. Working Pressure 185 lbs.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Y.
 IS A DONKEY BOILER FITTED? no. If so, is a report now forwarded? Y.
 Is the donkey boiler intended to be used for domestic purposes only Y.

PLANS. Are approved plans forwarded herewith for Shafting 10.3.30 Main Boilers 8.4.30 Auxiliary Boilers Y. Donkey Boilers Y.
 (If not state date of approval)
 Superheaters Y. General Pumping Arrangements 26.3.30 Oil fuel Burning Piping Arrangements Y.

SPARE GEAR.

Has the spare gear required by the Rules been supplied Y.
 State the principal additional spare gear supplied 1 C.D. Propeller; 1 tail shaft; 1 pair bottom end brasses; 1 pair top end brasses; 2 safety valve springs; 2 main & 2 donkey check valve lids; 12 piston bolts; 3 piston nuts; 12 assorted gland & cover studs; 12 assorted hose studs & nuts for pumps; 6 holding down bolts; 3 condenser tubes; 25 condenser ferrules; 2 furnace doors; quantity firebars, baffles, back lids, pricker blades, gauge glasses & cones.

The foregoing is a correct description,
 For BLAIR & CO. (1928) LIMITED.

A. J. Chambers
 SECRETARY.

Manufacturer.

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Lloyd's Register
 Foundation

W384-1041

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