

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report Aug 27 1928 When handed in at Local Office 29. 8. 1928 Port of Glasgow
 No. in Survey held at Glasgow & Leith Date, First Survey 25. 4. 28 Last Survey 9. 8. 1928
 Reg. Book. on the S.T. "MUDA" (Number of Visits 9) Tons { Gross 82.17 Net ✓
 Built at Leith By whom built Hy: Robb Ltd. Yard No. 109 When built 1928
 Engines made at Coatbridge By whom made W Beardmore & Co Ltd Engine No. 644 when made 1928
 Boilers made at Stockton on Tees By whom made M^r Riley Bros: Ltd Boiler No. 5829 when made 1928
 Registered Horse Power ✓ Owners Beira Boating Co Ltd Port belonging to London
 Nom. Horse Power as per Rule 54 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted yes
 Trade for which Vessel is intended Towing purposes

ENGINES, &c.—Description of Engines Compound Revs. per minute 120
 Dia. of Cylinders 14 - 30" Length of Stroke 21" No. of Cylinders Two No. of Cranks Two
 Crank shaft, dia. of journals as per Rule 6.24" Crank pin dia. 6.3/8" Crank webs Mid. length breadth 10.3/4" Thickness parallel to axis 4"
 as fitted 6.3/8" Mid. length thickness 4" Thickness around eye-hole 3"
 Intermediate Shafts, diameter as per Rule 5.9" Thrust shaft, diameter at collars as per Rule 6.24"
 as fitted 6" as fitted 6.3/8"
 Tube Shafts, diameter as per Rule ✓ Screw Shaft, diameter as per Rule 6.85" Is the tube shaft fitted with a continuous liner no
 as fitted ✓ as fitted 7" 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
 as fitted ✓ as fitted ✓ propeller boss no liner fitted 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 shaft yes Length of Bearing in Stern Bush next to and supporting propeller 2'-4"
 Propeller, dia. 4'-6" Pitch 10'-3" No. of Blades 3 Material Bronze whether Movable no Total Developed Surface 18 1/2 sq. feet
 Feed Pumps worked from the Main Engines, No. one Diameter 2 1/2" Stroke 10 1/2" Can one be overhauled while the other is at work ✓
 Bilge Pumps worked from the Main Engines, No. one Diameter 2 1/2" Stroke 10 1/2" Can one be overhauled while the other is at work ✓
 Feed Pumps { No. and size 1. 6" x 4" x 7" Pumps connected to the { No. and size one - 7" x 8" x 8"
 How driven Steam Main Bilge Line How driven Steam
 Ballast Pumps, No. and size one - 7" x 8" x 8" Lubricating Oil Pumps, including Spare Pump, No. and size ✓
 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 one, 2" In Holds, &c. In fore cabin one 2" In after cabin one, 2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size one - 3 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size one, 2" 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 above
 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
 What Pipes pass through the bunkers None How are they protected None
 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 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 none Is it fitted with a watertight door ✓ worked from ✓

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 1080 sq. ft.
 Is Forced Draft fitted no No. and Description of Boilers 1 S.B. Working Pressure 140 lbs. a"
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes
 IS A DONKEY BOILER FITTED? no If so, is a report now forwarded? ✓
 PLANS. Are approved plans forwarded herewith for Shafting 27-4-28 Main Boilers yes Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)
 Superheaters ✓ General Pumping Arrangements yes Oil fuel Burning Piping Arrangements ✓

SPARE GEAR. State the articles supplied:— Two top end bolts & nuts; 2 bottom end bolts & nuts; 2
main bearing bolts; 1 set of coupling bolts; 1 set of feed, bilge air, air pump valves;
1 set of piston rings; assorted bolts & nuts; 6 condenser tubes, 12 ferrules;
2 doz. assorted bolts & nuts; 3 plain boiler tubes, one safety valve
spring, — one propeller shaft & propeller (These two spare parts have
been despatched to Beira in another vessel).

The foregoing is a correct description,

WILLIAM BEARDMORE & CO. LIMITED

Manufacturer.



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