

REPORT ON MACHINERY.

Date of writing Report 19 When handed in at Local Office 19 Port of Dundee Received at London Office TUE. 27 FEB. 1923
 No. in Survey held at Dundee Date, First Survey 15 Nov. 1922 Last Survey 22 Feb 1923
 Reg. Book. on the T.S.S. "MURITAI" (Number of Visits 13)

Master Built at Montrose By whom built Coastal Construction Co. Ltd. No. 107
 Engines made at Glasgow By whom made McKie & Baxter. No. 1081-2 when made 1923
 Boilers made at Glasgow By whom made Ross & Duncan. No. 1672-3 when made 1922
 Registered Horse Power Owners Eastbourne Borough Council Port belonging to Wellington
 Nom. Horse Power as per Section 28 130. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion (Turbo) No. of Cylinders 6 No. of Cranks 6
 Dia. of Cylinders 10 1/2 x 17 x 28 Length of Stroke 20 Revs. per minute 120 Dia. of Screw shaft as per rule Material of screw shaft as fitted
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight in the propeller boss If the liner is in more than one length of the joint burned 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 Length of stern bush
 Dia. of Tunnel shaft as per rule Dia. of Crank shaft journals as fitted Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under collars Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface
 Separate No. of Feed pumps Two Diameter of ditto 8 x 6 Stroke 12 Can one be overhauled while the other is at work Yes
 Separate No. of Bilge pumps one Diameter of ditto 5 x 5 Stroke 6 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines one Sizes of Pumps 6 x 6 x 6 (General Service) No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2 @ 2" In Holds, &c. Fore Peak 1 @ 2" Chamberlocks & Close 1 @ 2"
 Forward Saloon 1 @ 2" After Saloon 1 @ 2" After Peak 1 @ 2"
 No. of Bilge Injections 1 sizes 5 1/2" Connected to condenser, or to circulating pump C.P. Is a separate Donkey Suction fitted in Engine room & size Yes 1 @ 3"
 Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible No
 Are all connections with the sea direct on the skin of the ship Yes Are they 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 Discharge Pipes 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 are carried through the bunkers None How are they protected —
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
 Is the Screw Shaft Tunnel watertight No tunnel Is it fitted with a watertight door Yes worked from Yes

BOILERS, &c.—(Letter for record S) Manufacturers of Steel
 Total Heating Surface of Boilers 2200 Is Forced Draft fitted Yes No. and Description of Boilers Two Single ended multitubular
 Working Pressure 180 lbs Tested by hydraulic pressure to 320 lbs Date of test 7-12-22 No. of Certificate 16156
 Can each boiler be worked separately Yes Area of fire grate in each boiler 30 ft No. and Description of Safety Valves to each boiler Two Spring loaded Area of each valve 4.43 sq. in Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 23" Mean dia. of boilers Length Material of shell plates
 Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
 Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 Length of plain part top Thickness of plates bottom Description of longitudinal joint No. of strengthening rings
 Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 Pitch of stays to ditto: Sides Top If stays are fitted with nuts or riveted heads Working pressure by rules
 Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
 Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each
 Working pressure by rules Steam dome: description of joint to shell % of strength of joint
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted



