

REPORT ON MACHINERY.

No. 33268

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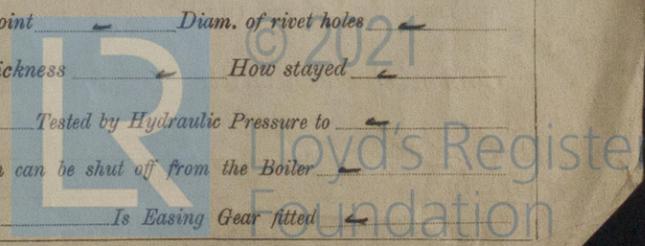
Date of writing Report 19 When handed in at Local Office 14/2 1922 Port of Hull SAT 4 MAR 1922
 No. in Survey held at Hull Date, First Survey 22/4/20 Last Survey 3/2/1922
 Reg. Book. on the (Guthrie SS no 459) S.S. "TRURO" (Number of Visits 75)
 Master Built at Aberdeen By whom built J. Guthrie & Co. Ltd. When built 1912
 Engines made at Hull By whom made Balfour & Co. Ltd. when made 1912
 Boilers made at Hull By whom made do when made 1912
 Registered Horse Power Owners Ellerman Wilson Line Ltd. Port belonging to
 Nom. Horse Power as per Section 28 120 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 14 1/2 - 24 1/2 - 41 Length of Stroke 30 Revs. per minute 45 Dia. of Screw shaft as per rule 9.1 as fitted 10 1/2 Material of screw shaft Steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube No Is the after end of the liner made water tight in the propeller boss - If the liner is in more than one length are the joints 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 10"
 Dia. of Tunnel shaft as per rule 7.875 as fitted 8 Dia. of Crank shaft journals as per rule 8.25 as fitted 8 1/2 Dia. of Crank pin 8 1/2 Size of Crank webs 1 1/2 x 5 1/2 Dia. of thrust shaft under collars 8 1/2 Dia. of screw 11-6 Pitch of Screw 10-9 No. of Blades 4 State whether moveable No Total surface 40 sq ft
 No. of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 18 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 3 Stroke 18 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Sizes of Pumps 6 x 8 x 8 BALLAST. Aux. FEED No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 4 @ 2" @ 12 3" Ballast motor in In Holds, &c. 2 @ 2" @ 2 @ 2 1/2"
 No. of Bilge Injections 2 sizes 3 1/2 Connected to condenser, or to circulating pump, or as a separate Donkey Suction fitted in Engine room & size 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 Yes
 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 - 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 Yes Is it fitted with a watertight door Yes worked from engine room gratings.

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel J. Francis & Co. Ltd.
 Total Heating Surface of Boilers 2280 sq ft Is Forced Draft fitted No No. and Description of Boilers 2 S.E. of hull mouth
 Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs. Date of test 22/9/20 No. of Certificate 3451
 Can each boiler be worked separately Yes Area of fire grate in each boiler 35 sq ft No. and Description of Safety Valves to each boiler 2 double spring loaded Area of each valve 3.14 sq in Pressure to which they are adjusted 205 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 15 Mean dia. of boilers 11-3 Length 10-3 Material of shell plates Steel
 Thickness 1 1/2 Range of tensile strength 28/32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams DRG long. seams TRUSS Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 7/8 Lap of plates or width of butt straps 1 1/2
 Per centages of strength of longitudinal joint 95/95 Working pressure of shell by rules 20/200 Size of manhole in shell 18 x 12
 Size of compensating ring 40 x 30 x 1 1/2 No. and Description of Furnaces in each boiler 2 Plain Material Steel Outside diameter 40.6
 Length of plain part top 76-8 bottom 76-8 Thickness of plates crown 3/32 Description of longitudinal joint Welded No. of strengthening rings -
 Working pressure of furnace by the rules 215 Combustion chamber plates: Material Steel Thickness: Sides 3/32 Back 1/8 Top 1/8 Bottom 3/32
 Pitch of stays to ditto: Sides 8 1/2 x 7/8 Back 8 1/2 x 7/8 Top 7 1/2 x 7/8 If stays are fitted with nuts or riveted heads No Working pressure by rules 205
 Material of stays Steel Area at smallest part 2.07 Area supported by each stay 79.5 Working pressure by rules 234 End plates in steam space:
 Material Steel Thickness 1 1/2 Pitch of stays 15 x 15 1/2 How are stays secured DN Working pressure by rules 20/200 Material of stays Steel
 Area at smallest part 5.157 Area supported by each stay 236 Working pressure by rules 228 Material of Front plates at bottom Steel
 Thickness 1/2 Material of Lower back plate Steel Thickness 1/2 Greatest pitch of stays 14 x 9 1/2 Working pressure of plate by rules 215
 Diameter of tubes 3 1/2 Pitch of tubes 19 x 4 1/2 Material of tube plates Steel Thickness: Front 1/2 Back 1/8 Mean pitch of stays 11.2
 Pitch across wide water spaces 15 1/2 Working pressures by rules 205 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 1/2 x 1 1/2 Length as per rule 2-8 1/2 Distance apart 7 1/2 Number and pitch of stays in each 3 @ 7 1/2
 Working pressure by rules 205 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 -

W416-0133



If a Report also sent on the Hull of the Ship & if not, state whether, and when, one will be sent

