

REPORT ON MACHINERY.

No. 24221

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Date of writing Report Sept 15 1911 When handed in at Local Office 19. 9. 1911 Port of Hull
 No. in Survey held at Hull Date, First Survey Mar 17th 1911 Last Survey Sept 13th 1911
 Reg. Book. 4 on the Shelley "FACI" (Number of Visits 36)
 Master Built at Selby By whom built Bochran Sons Tons 158
 Engines made at Hull By whom made Amos Smith Ltd when made 1911
 Boilers made at 8 By whom made 5 when made 8
 Registered Horse Power Owners G. Gust Port belonging to Tanger
 Nom. Horse Power as per Section 28 61 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Twin triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 11 1/2 - 20 - 33 Length of Stroke 24 Revs. per minute 119 Dia. of Screw shaft 7 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 Yes If the liner is in more than one length are the joints burned No 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 No If two liners are fitted, is the shaft lapped or protected between the liners No Length of stern bush 33
 Dia. of Tunnel shaft 6 1/2 Dia. of Crank shaft journals 6 3/4 Dia. of Crank pin 6 1/2 Size of Crank webs 2 1/2 - 4 1/2 Dia. of thrust shaft under collars 6 1/2 Dia. of screw 8 1/3 Pitch of Screw 11 1/2 No. of Blades 4 State whether moveable No Total surface 25 1/2
 No. of Feed pumps one Diameter of ditto 2 1/2 Stroke 13 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps one Diameter of ditto 2 1/2 Stroke 13 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines one Sizes of Pumps 4 1/2 - 2 1/2 - 4 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2 - 2" Fore & Aft In Holds, &c. 1 - 2" (Fore head)
 No. of Bilge Injections one sizes 3 Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 2"
 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 Hold Suction How are they protected Wood casing
 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
 Dates of examination of completion of fitting of Sea Connections 27. 6. 11 of Stern Tube 27. 6. 11 Screw shaft and Propeller 27. 6. 11
 Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Phoenix & Howard
 Total Heating Surface of Boilers 980 1/2 Is Forced Draft fitted No No. and Description of Boilers 1 S.E. Multitubular
 Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 27. 7. 11 No. of Certificate 1829
 Can each boiler be worked separately Yes Area of fire grate in each boiler 32.5 1/2 No. and Description of Safety Valves to each boiler 2 Spring loaded Area of each valve 4.9 1/2 Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 7 1/2 Mean dia. of boilers 11.6 Length 9.6 Material of shell plates Steel
 Thickness 15 Range of tensile strength 29-33 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams SR Lap long. seams SR S. rivet Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 7 1/4 Lap of plates or width of butt straps 15 3/8
 Per centages of strength of longitudinal joint rivets 91.4 Working pressure of shell by rules 183 Size of manhole in shell 16 x 12 plate 85.7
 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 3.5
 Length of plain part top 41 bottom 65 Thickness of plates crown 1 3/4 bottom 1 1/4 Description of longitudinal joint Welded No. of strengthening rings
 Working pressure of furnace by the rules 188 Combustion chamber plates: Material Steel Thickness: Sides 1/6 Back 1/6 Top 1/6 Bottom 3/8
 Pitch of stays to ditto: Sides 8 3/4 x 9 1/2 Back 8 3/4 x 9 1/2 Top 8 3/4 x 9 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 196
 Material of stays Steel Diameter at smallest part 1 3/4 Area supported by each stay 83 Working pressure by rules 222 End plates in steam space: Material Steel Thickness 1 1/6 Pitch of stays 16 x 15 How are stays secured Nuts & washers Working pressure by rules 222 Material of stays Steel
 Diameter at smallest part 6.10 Area supported by each stay 240 Working pressure by rules 222 Material of Front plates at bottom Steel
 Thickness 3 1/2 Material of Lower back plate Steel Thickness 7 Greatest pitch of stays 14 x 8 1/2 Working pressure of plate by rules 185
 Diameter of tubes 3 1/2 Pitch of tubes 4 3/4 x 4 3/4 Material of tube plates Steel Thickness: Front 3/32 Back 27 Mean pitch of stays 9 1/2
 Pitch across wide water spaces 14 Working pressures by rules 184 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 1/2 x 1 1/2 Length as per rule 2.6 Distance apart 9 Number and pitch of stays in each 20 8 1/2
 Working pressure by rules 192 Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

In a Report also sent on the Hull of the Ship

Im. 1.10.-T.

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