

REPORT ON MACHINERY.

No. 23902

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Date of writing Report 10 When handed in at Local Office 3rd July 1911 Port of Hull
 No. in Survey held at Hull & Goole Date, First Survey Jan 3rd Last Survey 30th June 1911
 Reg. Book. on the Steel S. Lamport (Number of Visits 58) Tons } Gross 132
 Master Built at Goole. By whom built Geo. S. B. R. Co. Ltd When built 1911
 Engines made at } Hull By whom made } Messrs Earle's Co. Ltd. when made 1911
 Boilers made at } Hull By whom made } Earle's Co. Ltd. when made 1911
 Registered Horse Power 93 Owners Argentine Navigation Co. Ltd Port belonging to Buenos Ayres
 Nom. Horse Power as per Section 28 93 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 13 1/2" 22" 37" Length of Stroke 24" Revs. per minute 110 Dia. of Screw shaft 7.9" 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 — 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 No Length of stern bush 34 1/2"
 Dia. of Tunnel shaft 6.67" as per rule 6.75" as fitted 6.75" Dia. of Crank shaft journals 7" as per rule 7" as fitted 7 1/2" Dia. of Crank pin 7 1/2" Size of Crank webs 14" x 4 1/2" Dia. of thrust shaft under
 rollers 7 1/4" Dia. of screw 9" x 3" Pitch of Screw 11" - 6" No. of Blades 4 State whether moveable No Total surface 36 sq ft
 No. of Feed pumps Two Diameter of ditto 2 1/4" Stroke 15" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps Two Diameter of ditto 2 1/4" Stroke 15" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines One Sizes of Pumps 6" x 4" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 2" One 3 1/2" One 2" in Blk Room In Holds, &c. One each 2" in fore peak, in after
 peak, and forward bilge
 No. of Bilge Injections 1 sizes 3 1/2" Connected to condenser, or to circulating pump — 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 None
 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
 Dates of examination of completion of fitting of Sea Connections 28.4.11 of Stern Tube 28.4.11 Screw shaft and Propeller 28.4.11
 Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door — worked from —

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel Phoenix A. G. fur B. H. Hoerder Verein
 Total Heating Surface of Boilers 1700 sq ft Is Forced Draft fitted No No. and Description of Boilers One cyl. Multi Single Ended
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 5.5.11 No. of Certificate 1809
 Can each boiler be worked separately — Area of fire grate in each boiler 47 sq ft No. and Description of Safety Valves to
 each boiler Two Spring Area of each valve 4.9 sq ft Pressure to which they are adjusted — Are they fitted with easing gear
 Smallest distance between boilers or uptakes and bunkers or woodwork 8" Mean dia. of boilers 13" - 3" Length 11" - 6" Material of shell plates Steel
 Thickness 1 3/32" Range of tensile strength 28.32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams L. O. R.
 long. seams O. B. S. J. R. Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 5/16" Lap of plates or width of butt straps 18 1/2"
 Per centages of strength of longitudinal joint rivets 100 Working pressure of shell by rules 181 lbs Size of manhole in shell 16" x 12"
 Size of compensating ring 7 1/2" x 1 3/32" No. and Description of Furnaces in each boiler Two Deighons Material Steel Outside diameter 4" - 3 1/4"
 Length of plain part top — bottom — Thickness of plates crown 5" bottom 8" Description of longitudinal joint Welded No. of strengthening rings 0
 Working pressure of furnace by the rules 196 lbs Combustion chamber plates: Material Steel Thickness: Sides 23/32" Back 1/6" Top 32" Bottom 32"
 Pitch of stays to ditto: Sides 10 1/2" x 9 1/2" Back 8 1/2" x 9 1/2" Top 9 1/2" x 10 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 182 lbs
 Material of stays Steel Diameter at smallest part 1 5/8" Area supported by each stay 103-125 Working pressure by rules 180 lbs End plates in steam space:
 Material Steel Thickness 1 5/32" Pitch of stays 18 1/2" x 17 1/2" How are stays secured O. T. Working pressure by rules 184 lbs Material of stays Steel
 Diameter at smallest part 6.23 Area supported by each stay 323.75 sq ft Working pressure by rules 200 lbs Material of Front plates at bottom Steel
 Thickness 29/32" Material of Lower back plate Steel Thickness 7/8" Greatest pitch of stays 13 3/4" x 9 3/8" Working pressure of plate by rules 191 lbs
 Diameter of tubes 3 1/2" Pitch of tubes 4 1/8" x 4 1/8" Material of tube plates Steel Thickness: Front 29/32" Back 1/6" Mean pitch of stays 9 3/4"
 Pitch across wide water spaces 13 1/2" Working pressures by rules 196 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 9" x 1 1/2" Length as per rule 2' - 6 23/32" Distance apart 10 1/4" Number and pitch of stays in each Two 9 1/2"
 Working pressure by rules 194 lbs Superheater or Steam chest; how connected to boiler — 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 —

