

REPORT ON MACHINERY.

No. 23718

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Date of writing Report 19 When handed in at Local Office 20th May 1911 Port of Hull
 No. in Survey held at Selby & Hull Date, First Survey Dec 12th Last Survey 15th May 1911
 Reg. Book. (Number of Visits 37)
 26 Supp. on the Steel Sec. R. Vonodel Tons } Gross 264
 } Net 106
 Master Built at Selby By whom built Cochrane Sons When built 1911
 Engines made at } By whom made Messrs when made 1911
 } Hull By whom made Charles D. Holmes & Co when made 1911
 Registered Horse Power Owners Atlas & Fishing Co. Ltd Port belonging to Gainsby
 Nom. Horse Power as per Section 28 73 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 12³/₄ - 22 - 36 Length of Stroke 24 Revs. per minute 105 Dia. of Screw shaft as per rule 7.33 Material of screw shaft Iron
 as fitted 7¹/₂ Is the after end of the liner made water tight
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes
 in the propeller boss Yes If the liner is in more than one length are the joints burned 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 36"
 Dia. of Tunnel shaft as per rule 6.5 Dia. of Crank shaft journals as per rule 6.82 Dia. of Crank pin 7.125 Size of Crank webs 13¹/₂ x 4⁷/₈ Dia. of thrust shaft under
 as fitted 4 as fitted 7.125 collars 7¹/₂ Dia. of screw 9'-0" Pitch of Screw 11' 0" No. of Blades 4 State whether moceable No Total surface 29 sq ft
 No. of Feed pumps 1 Diameter of ditto 2¹/₂" Stroke 24" Can one be overhauled while the other is at work —
 No. of Bilge pumps 1 Diameter of ditto 2¹/₂" Stroke 24" Can one be overhauled while the other is at work —
 No. of Donkey Engines One Sizes of Pumps 5" x 2³/₄" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two 2" One 3" In Holds, &c. One each to fore hold, fore slush well,
 and aft slush well, all 2". There is also an Ejector suction to bilges. Injector for boilers. And a
 No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size Yes 2¹/₂" E.
 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 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 27.3.11 of Stern Tube 27.3.11 Screw shaft and Propeller 27.3.11
 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 & Gas for Berg Westfalen
 Total Heating Surface of Boilers 1140 sq ft Is Forced Draft fitted No No. and Description of Boilers One cyl Multi
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 27.3.11 No. of Certificate 1807
 Can each boiler be worked separately — Area of fire grate in each boiler 36 sq ft No. and Description of Safety Valves to
 each boiler Two Spring Area of each valve 3.94 sq ft 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 4" Mean dia. of boilers 13'-0" Length 10'-6" Material of shell plates Steel
 Thickness 1¹/₃₂" Range of tensile strength 29 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams L.D.
 long. seams D.B.S.I.R. Diameter of rivet holes in long. seams 1¹/₃₂" Pitch of rivets 6¹/₈" Lap of plates or width of butt straps 15"
 Per centages of strength of longitudinal joint rivets 88 Working pressure of shell by rules 182 lbs Size of manhole in shell 16" x 12"
 plate 85
 Size of compensating ring 7" x 1¹/₃₂" No. and Description of Furnaces in each boiler Two plain Material S Outside diameter 44⁹/₁₆"
 Length of plain part top 6'-0²/₃₂" Thickness of plates crown 25" Description of longitudinal joint Welded No. of strengthening rings 0
 bottom 32"
 Working pressure of furnace by the rules 181 lbs Combustion chamber plates: Material S Thickness: Sides 45" Back 76" Top 76" Bottom 45"
 Pitch of stays to ditto: Sides 10" x 8¹/₂" Back 10" x 9" Top 8¹/₂" x 9" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 181 lbs
 Material of stays S Diameter at smallest part } 2.75" Area supported by each stay 120 sq ft Working pressure by rules 205 lbs End plates in steam space:
 Material S Thickness 1¹/₂" Pitch of stays 18" x 18" How are stays secured D.T.W. Working pressure by rules 185 lbs Material of stays S
 Diameter at smallest part 6'-33" Area supported by each stay 324 sq ft Working pressure by rules 203 lbs Material of Front plates at bottom S
 Thickness 7" Material of Lower back plate S Thickness 15" Greatest pitch of stays 15" x 10" Working pressure of plate by rules 186 lbs
 Diameter of tubes 3¹/₂" Pitch of tubes 4¹/₂" x 5" Material of tube plates S Thickness: Front 7" Back 7" Mean pitch of stays 9¹/₂"
 Pitch across wide water spaces 14³/₄" Working pressures by rules 283 lbs Girders to Chamber tops: Material S Depth and
 thickness of girder at centre 8³/₄" x 1" Length as per rule 2-11¹/₂" Distance apart 9" Number and pitch of stays in each Three 8¹/₂"
 Working pressure by rules 185 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

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