

REPORT ON MACHINERY

No. 15800.

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Date of writing Report 19 When handed in at Local Office 10/6/10 Port of Greenock
 No. in Survey held at Greenock Date, First Survey 7th June 1909 Last Survey 6th June 1910
 Reg. Book. on the SCREW STEAMER "ROSERIC" (Number of Visits 72)
 Master Shotton Built at Port Glasgow By whom built Russell & Co. Tons { Gross 4438.02
 Net 3004.60
 When built 1910
 Engines made at Greenock By whom made Rankin & Blackmore when made 1910
 Boilers made at Greenock By whom made Rankin & Blackmore when made 1910
 Registered Horse Power Owners The Bank Line Limited Port belonging to Glasgow
 Nom. Horse Power as per Section 28 478 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks Three
 Dia. of Cylinders 27"-44"-43" Length of Stroke 48" Revs. per minute 70 Dia. of Screw shaft 14.8" Material of screw shaft Steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes 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 on length 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 Yes
 If two liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 67"
 Dia. of Tunnel shaft 13.3" Dia. of Crank shaft journals 14" Dia. of Crank pin 14" Size of Crank webs 18 1/2" x 9" Dia. of thrust shaft under collars 14" Dia. of screw 18' 0" Pitch of Screw 18' to 19' No. of Blades 4 State whether moveable Yes Total surface 104 Sq. ft
 No. of Feed pumps 2 Diameter of ditto 4" Stroke 26" Can one be overhauled while the other is at work Yes WEIR'S FEED PUMP
 No. of Bilge pumps 2 Diameter of ditto 4 1/2" Stroke 26" Can one be overhauled while the other is at work Yes 9 1/2" x 7" x 24"
 No. of Donkey Engines Three Sizes of Pumps 10" x 7" x 10" 8" x 6" x 8" 9" x 12" x 12" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Three — 3 1/2" dia In Holds, &c. Nº 1 HOLD: Two - 3 1/2" dia; Nº 2 HOLD: Two - 3 1/2" dia; Nº 3 HOLD (DEEP TANK): Two - 6" dia and two - 3 1/2" dia; Nº 4 HOLD: Two - 3 1/2" dia; TUNNEL WELL: One - 2 1/2" dia.
 No. of Bilge Injections 1 sizes 6" Connected to condenser, or to circulating pump C. P. Is a separate Donkey Suction fitted in Engine room & size Yes: 3 1/2"
 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 except
 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 Yes
 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 26/4/10 of Stern Tube 26/4/10 Screw shaft and Propeller 26/5/10
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper platform

OILERS, &c.—(Letter for record S) Manufacturers of Steel D. Colville & Sons
 Total Heating Surface of Boilers 6764 Is Forced Draft fitted Yes No. and Description of Boilers 2: Multi-Steel Single End Cylinders
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 3/5/10 No. of Certificate 967
 Can each boiler be worked separately Yes Area of fire grate in each boiler 73 sq. ft. No. and Description of Safety Valves to each boiler 2: Direct Spring Area of each valve 14 1/9" 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 About 16" Mean dia. of boilers 14' 0" Length 12' 0" Material of shell plates Steel
 Thickness 1 1/2" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Lap Double
 long. seams Butt Straps Diameter of rivet holes in long. seams 1 1/32" Pitch of rivets 9 1/2" 4 1/8" Lap of plates or width of butt straps 20 1/2"
 Per centages of strength of longitudinal joint rivets 88.5 Working pressure of shell by rules 180 lbs Size of manhole in shell 16" x 12"
 plate 85.5 END
 Size of compensating ring plate flanged No. and Description of Furnaces in each boiler 4: Deighton's Material Steel Outside diameter 3' 9 1/4"
 Length of plain part 7' 10 1/2" Thickness of plates 1 1/2" Description of longitudinal joint Weld No. of strengthening rings None
 Working pressure of furnace by the rules 181 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 5/8" Top 1/16" Bottom 3/4"
 Pitch of stays to ditto: Sides 4 5/8" x 8" Back 9 1/4" x 7 1/8" Top 10 1/4" x 7 3/4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180 lbs
 Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 71" Working pressure by rules 199 lbs End plates in steam space:
 Material Steel Thickness 1 3/8" Pitch of stays 17 1/2" x 19 1/2" How are stays secured Double nuts Working pressure by rules 195 lbs Material of stays Steel
 Diameter at smallest part 3 1/2" Area supported by each stay 342" Working pressure by rules 211 lbs Material of Front plates at bottom Steel
 Thickness 7/8" Material of Lower back plate Steel Thickness 1 3/8" Greatest pitch of stays 12 1/2" Working pressure of plate by rules 189 lbs
 Diameter of tubes 2 1/2" Pitch of tubes 3 3/32" x 3 23/32" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 4.96"
 Pitch across wide water spaces 13 1/4" Working pressures by rules 217 lbs 315 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 10" x 1 1/2" Length as per rule 34.6" Distance apart 10 1/2" Number and pitch of stays in each 3: 7 3/4"
 Working pressure by rules 181 lbs 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

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