

REPORT ON MACHINERY.

No. 6804.

MIN. 11 III 1910

Received at London Office

Port of Belfast
 No. in Survey held at Belfast Date, first Survey 23rd Nov^r 1909 Last Survey 6th July 1910
 Reg. Book. S.S. 50 (Number of Visits 48)
 on the Albans
 Master Loopy Built at Belfast By whom built Warriman Clark & Co Gross 4119 Tons Net 2538
 Engines made at Belfast By whom made Warriman Clark & Co When built 1910
 Boilers made at Belfast By whom made Warriman Clark & Co when made 1910
 Registered Horse Power 588 Owners Eastern & Australian S. S. Co belonging to London
 Nom. Horse Power as per Section 28 588 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 27-45-75 Length of Stroke 54 Revs. per minute 72 Dia. of Screw shaft as per rule 15.2 Material of S. Steel
 as fitted 16.0 (screw shaft)
 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 Yes 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 64
 Dia. of Tunnel shaft as per rule 14.2 Dia. of Crank shaft journals as per rule 14.02 Dia. of Crank pin 15.4 Size of Crank web 28.5 x 10 Dia. of thrust shaft under collars 15.5 Dia. of screw 14.6 Pitch of Screw 20.9 No. of Blades 4 State whether moveable Yes Total surface 9220 sq. ft.
 No. of Feed pumps None Diameter of ditto 4.5 Stroke 27 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 4.5 Stroke 27 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 6 Sizes of Pumps 2 10.5 x 8 x 24 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room 4-3.5 2 5 x 5 x 6 In Holds, &c. 7-3.5 x 1-2.5 2 4 x 4 x 5
 No. of Bilge Injections 1 sizes 9 Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes-3.5
 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 Both
 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 Four 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 3/5/10 of Stern Tube 3/5/10 Screw shaft and Propeller 4/5/10
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from top platform E. Room

BOILERS, &c.—(Letter for record 3) Manufacturers of Steel Readman & Co
 Total Heating Surface of Boilers 8616 Is Forced Draft fitted Yes No. and Description of Boilers 4 Single End Cylinders
 Working Pressure 190 lbs Tested by hydraulic pressure to 380 lbs Date of test 26-4-10 No. of Certificate 432
 Can each boiler be worked separately Yes Area of fire grate in each boiler 55 sq. ft. No. and Description of Safety Valves to each boiler 2 - Direct Spring Area of each valve 8.29 sq. in. Pressure to which they are adjusted 190 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork about 2 in. Mean dia. of boilers 14.0 Length 11.6 Material of shell plates Steel
 Thickness 1/2 Range of tensile strength 28-32 Tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Lap Rivet
 long. seams Butt Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 9 1/2 Lap of plates or width of butt straps 20 1/2
 Per centages of strength of longitudinal joint rivets 88.8 Working pressure of shell by rules 28 lbs Size of manhole in shell 16 x 12
 Size of compensating ring McNeil's No. and Description of Furnaces in each boiler 3 - Rectangular Material Steel Outside diameter 44 1/4
 Length of plain part top 9 Thickness of plates crown 3 1/8 Description of longitudinal joint Weld No. of strengthening rings 5
 bottom 9 bottom 3 3/2
 Working pressure of furnace by the rules 213 lbs Combustion chamber plates: Material Steel Thickness: Sides 5 Back 4 1/2 Top 5 Bottom 3 1/2
 Pitch of stays to ditto: Sides 8 1/2 x 8 Back 8 3/4 x 8 Top 8 1/2 x 7 1/2 If stays are fitted with nuts or riveted heads Nuts riveted Working pressure by rules 198 lbs
 Material of stay Steel Diameter at smallest part 1 1/2 Area supported by each stay 70 sq. in. Working pressure by rules 202 lbs End plates in steam space: Material Steel Thickness 1 1/4 Pitch of stays various How are stays secured Nuts riveted Working pressure by rules 208 lbs Material of stays Steel
 Diameter at smallest part 2 1/2 supported by each stay various Working pressure by rules 219 lbs Material of Front plates at bottom Steel
 Thickness 1 Material of Lower back plate Steel Thickness 1 1/2 Greatest pitch of stays 18 1/2 Working pressure of plate by rules 194 lbs
 Diameter of tubes 2 1/2 Pitch of tubes 3 1/2 x 3 5/8 Material of tube plate Steel Thickness: Front 1 Back 1 1/2 Mean pitch of stays 1 1/4 x 7 1/4
 Pitch across wide water spaces 13 1/2 Working pressures by rules 197 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 1/2 x (3 x 2) Length as per rule 8 1/2 Distance apart 8 1/2 Number and pitch of stays in each 3-7 1/2
 Working pressure by rules 22 lbs Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately Yes
 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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