

REPORT ON MACHINERY.

JAN 23 1906

Port of Glasgow

Received at London Office _____ 19__

No. in Survey held at Glasgow Date, first Survey 27th Sept 04 Last Survey 10th Jan 1906
 Reg. Book. 69 Sup on the Steel Sec. Stms. "Admiral" (Number of Visits 49) Gross Tons 260
 Master Built at Maryport By whom built W. Walker When built 1905
 Engines made at Glasgow By whom made James Ritchie when made 1906
 Boilers made at Glasgow By whom made James Neilson & Son Ltd. (No 2760) when made 1906
 Registered Horse Power 54 Owners Manchester, Liverpool & N. Wales S. S. Co. Ltd. Port belonging to Liverpool
 (R. R. Clark, Mgr.)
 Nom. Horse Power as per Section 28 54 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Compound No. of Cylinders Two No. of Cranks Two
 Dia. of Cylinders 15" x 32" Length of Stroke 22" Revs. per minute 125 Dia. of Screw shaft as per rule 6.8 Material of screw shaft Iron
 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 2" 8"
 Dia. of Tunnel shaft as per rule 6.23 Dia. of Crank shaft journals as per rule 6.54 Dia. of Crank pin 7" Size of Crank webs 5" x 10 1/2" Dia. of thrust shaft under collars 7" Dia. of screw 8" 0 Pitch of screw 10" 6" No. of blades 4 State whether moveable No Total surface 30"
 No. of Feed pumps Two Diameter of ditto 3" Stroke 11" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps Two Diameter of ditto 3" Stroke 11" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines Two Sizes of Pumps Gen. 0K. 6 x 5 3/4 x 6 W. H. Huxton Super No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room One 2" Ballast. 6 x 5 3/4 x 6 W. H. Huxton Super In Holds, &c. One 2" & aft peak 2"
 No. of bilge injections 1 sizes 2 1/2" Connected to condenser, or to circulating pump As p. 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 Larger valves, smaller, cocks
 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 Inward bilge suction How are they protected Strong 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
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock New work Is the screw shaft tunnel watertight Mach. apt
 Is it fitted with a watertight door Yes worked from _____

BOILERS, &c.—No. of Certificate 7333 (Letter for record Y) Total Heating Surface of Boilers 992 Is forced draft fitted No
 No. and Description of Boilers One single-ended Working Pressure 130 lbs Tested by hydraulic pressure to 260 lbs
 Date of test 23.1.05 Can each boiler be worked separately Yes Area of fire grate in each boiler 34 No. and Description of safety valves to each boiler Two Direct Spring Area of each valve 9.62 Pressure to which they are adjusted 135 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork Several feet Mean dia. of boilers 11" 0" Length 10' 0" Material of shell plates Steel
 Thickness 23/32 Range of tensile strength 27 to 32 tons Are they welded or flanged No Descrip. of riveting: cir. seams D. Riv. Lap long. seams D-B Straps
 Diameter of rivet holes in long. seams 13/16 Pitch of rivets 59/16 Lap of plates or width of butt straps 12 1/8"
 Per centages of strength of longitudinal joint 93.5 Working pressure of shell by rules 130 lbs Size of manhole in shell 16" x 12"
 Size of compensating ring M. Heils No. and Description of Furnaces in each boiler Two, plain Material Steel Outside diameter 3' 4"
 Length of plain part top 6' 6" Thickness of plates crown 2 1/32 Description of longitudinal joint Welded No. of strengthening rings None
 Working pressure of furnace by the rules 135 lbs Combustion chamber plates: Material Steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 3/4"
 Pitch of stays to ditto: Sides 7 3/4 x 1/2" Back 7 3/4 x 1/8" Top 7 3/4 x 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 132 lbs
 Material of stays Iron Diameter at smallest part 1.50 Area supported by each stay 58 Working pressure by rules 155 End plates in steam space:
 Material Steel Thickness 13/16 Pitch of stays 15 3/4 x 15 How are stays secured Drab nuts Working pressure by rules 132 lbs Material of stays Steel
 Diameter at smallest part 3 7/8 Area supported by each stay 236.8 Working pressure by rules 139 Material of Front plates at bottom Steel
 Thickness 23/32 Material of Lower back plate Steel Thickness 5/8" Greatest pitch of stays 10" Working pressure of plate by rules 135 lbs
 Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 23/32 Back 23/32 Mean pitch of stays 11 1/4"
 Pitch across wide water spaces 14" Working pressures by rules 133 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 3/4" x 1 1/4" Length as per rule 25 3/8" Distance apart 7 3/4" Number and pitch of Stays in each Two at 7/2"
 Working pressure by rules 160 lbs Superheater or Steam chest; how connected to boiler None 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 _____

