

REPORT ON MACHINERY.

No. 22824

Port of Glasgow

Received at London Office

No. in Survey held at Paisley Date, first Survey 17th March Last Survey 22nd April 1905
 Reg. Book. on the Main Boilers of "Lore" (Number of Visits 6)
 Master Built at Campbelloch By whom built Campbelloch & Co When built 1905
 Engines made at Glenoch By whom made J & Kincaid & Co when made 1905
 Boilers made at Paisley By whom made A F Craig & Co (Glasgow) when made 1905
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Nom. Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

ENGINES, &c.—Description of Engines

No. of Cylinders _____ No. of Cranks _____

Dia. of Cylinders _____ Length of Stroke _____ Revs. per minute _____ Dia. of Screw shaft _____ Material of screw shaft _____

Is the screw shaft fitted with a continuous liner the whole length of the stern tube _____ Is the after end of the liner made water tight in the propeller boss _____

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 _____ Length of stern bush _____

Dia. of Tunnel shaft _____ Dia. of Crank shaft journals _____ Dia. of Crank pin _____ Size of Crank webs _____ Dia. of thrust shaft under collars _____

Dia. of screw _____ Pitch of screw _____ No. of blades _____ State whether moceable _____ Total surface _____

No. of Feed pumps _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____

No. of Bilge pumps _____ Diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____

No. of Donkey Engines _____ Sizes of Pumps _____ No. and size of Suctions connected to both Bilge and Donkey pumps _____

In Engine Room _____ In Hold, &c. _____

No. of bilge injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate donkey suction fitted in Engine room & size _____

Are all the bilge suction pipes fitted with roses _____ Are the roses in Engine room always accessible _____ Are the sluices on Engine room bulkheads always accessible _____

Are all connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the discharge pipes above or below the deep water line _____

Are they each fitted with a discharge valve always accessible on the plating of the vessel _____ Are the blow off cocks fitted with a spigot and brass covering plate _____

What pipes are carried through the bunkers _____ How are they protected _____

Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times _____

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges _____

When were stern tube, propeller, screw shaft, and all connections examined in dry dock _____ Is the screw shaft tunnel watertight _____

Is it fitted with a watertight door _____ worked from _____

BOILERS, &c.— (Letter for record (5)) Total Heating Surface of Boilers 2100 # Is forced draft fitted _____

No. and Description of Boilers Two Single Ended Working Pressure 165 Tested by hydraulic pressure to 330 lbs

Date of test 22/4/05 Can each boiler be worked separately _____ Area of fire grate in each boiler 36.45 # No. and Description of safety valves to each boiler _____

Area of each valve _____ Pressure to which they are adjusted _____ Are they fitted with easing gear _____

Smallest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers 11'-6" Length 10'-6" Material of shell plates stut

Thickness 5/16" Range of tensile strength 28600 Are they welded or flanged no Descrip. of riveting: cir. seams DRH long. seams B.S.

Diameter of rivet holes in long. seams 5/16" Pitch of rivets 6 1/2" Lap of plates or width of butt straps 13 3/4"

Per centages of strength of longitudinal joint _____ rivets 88.7 Working pressure of shell by rules 168 lbs Size of manhole in shell 16x12"

Size of compensating ring _____ plate 85.27 No. and Description of Furnaces in each boiler 2 Dighton Material stut Outside diameter 3'-6 1/4"

Length of plain part _____ top _____ bottom _____ Thickness of plates _____ crown _____ bottom _____ Description of longitudinal joint weld No. of strengthening rings _____

Working pressure of furnace by the rules 165 Combustion chamber plates: Material stut Thickness: Sides 9/16" Back 7/8" Top 9/16" Bottom 5/8"

Pitch of stays to ditto: Sides 7x9" Back 8 1/2x9 1/2" Top 7x9" If stays are fitted with nuts or riveted heads _____ Working pressure by rules 167 lbs

Material of stays stut Diameter at smallest part 1.476 Area supported by each stay 81" Working pressure by rules 174 End plates in steam space: _____

Material stut Thickness 1 1/16" Pitch of stays 16 3/4x14" How are stays secured D. nuts Working pressure by rules 168 Material of stays stut

Diameter at smallest part 6.33 Area supported by each stay 300" Working pressure by rules 210 Material of Front plates at bottom stut

Thickness 13/16" Material of Lower back plate stut Thickness 1 1/16" Greatest pitch of stays 14 1/2" Working pressure of plate by rules 165

Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" Material of tube plates stut Thickness: Front 13/16" Back 13/16" Mean pitch of stays 11 7/8"

Pitch across wide water spaces 14 1/2" Working pressures by rules 168 Girders to Chamber tops: Material stut Depth and thickness of girder at centre 9 3/4x19" Length as per rule 29 1/2" Distance apart 9" Number and pitch of Stays in each 3-7"

Working pressure by rules 165 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 _____

