

REPORT ON MACHINERY.

Port of Glasgow.

TUES. MAR 5 1901

Received at London Office

No. in Survey held at Glasgow.
Reg. Book.

Date, first Survey 22 Sept 99 Last Survey 27 Sept 1901
(Number of Visits 50)

on the Screw Steamer "Point Clear."

Tons ^{Gross}
_{Net}

Master Built at Maryport By whom built Ritchie & Co.

When built 1901.

Engines made at Glasgow By whom made Ross & Duncan.

when made 1901.

Boilers made at Glasgow. By whom made Ross & Duncan.

when made 1901.

Registered Horse Power Owners Hilgour & Baker

Port belonging to

Nom. Horse Power as per Section 28 81.

Is Refrigerating Machinery fitted No.

Is Electric Light fitted No.

ENGINES, &c.—Description of Engines Triplic Expansion

No. of Cylinders Three No. of Cranks Three

Dia. of Cylinders 14-22½-37" Length of Stroke 27" Revs. per minute 100. Dia. of Screw shaft as per rule 3.19 Lgth. of stern bush 2.6"
Dia. of Tunnel shaft as per rule 6.8 Dia. of Crank shaft journals as per rule 7" Dia. of Crank pin 7" Size of Crank webs 9.5-14.2" Dia. of thrust shaft under
collars 7" Dia. of screw 10.0" Pitch of screw 12.3" No. of blades 4 State whether moveable No. Total surface 3434 ft.

No. of Feed pumps 2 Diameter of ditto 2½" Stroke 13½" Can one be overhauled while the other is at work Yes.

No. of Bilge pumps 2 Diameter of ditto 2½" Stroke 13½" Can one be overhauled while the other is at work Yes.

No. of Donkey Engines one Sizes of Pumps 6" x 14" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room Three: 2" dia In Holds, &c. Two: 2" dia.

No. of bilge injections 1 sizes 3" Connected to condenser, or to circulating pump C. 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 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

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.

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

Is it fitted with a watertight door Yes. worked from Yes.

OILERS, &c.— (Letter for record \$.) Total Heating Surface of Boilers 135039 ft. Is forced draft fitted No.

No. and Description of Boilers One: bylund hulls single ended. Working Pressure 160 lbs. Tested by hydraulic pressure to 320 lbs.

Date of test 13/8/00 Can each boiler be worked separately Yes. Area of fire grate in each boiler 4939 ft. No. and Description of safety valves to
each boiler 2: Direct Spring. Area of each valve 5.93" Pressure to which they are adjusted 165 lbs. Are they fitted with easing gear Yes.

Smallest distance between boilers or uptakes and bunkers or woodwork about 12" Mean dia. of boilers 15.0" Length 9.6" Material of shell plates Steel

Thickness 1" Range of tensile strength 27-37 tons Are they welded or flanged No. Descrip. of riveting: cir. seams Lap Double long. seams Double Butt Snaps

Diameter of rivet holes in long. seams 1" Pitch of rivets 6½" 3.38" Lap of plates or width of butt straps 14.2"

Per centages of strength of longitudinal joint 86.4 Working pressure of shell by rules 161 lbs. Size of manhole in shell 15" x 11½"

Size of compensating ring 6½" x 1" No. and Description of Furnaces in each boiler 3: plain Material Steel Outside diameter 40"

Length of plain part top 6.0" Thickness of plates bottom 7.6" Description of longitudinal joint Weld No. of strengthening rings partial at bottom

Working pressure of furnace by the rules 164 lbs. Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 5/8"

Pitch of stays to ditto: Sides 7/4 x 7/4" Buck 7/4 x 7/4" Top 7/4 x 7/4" If stays are fitted with nuts or riveted heads Nuts. Working pressure by rules 182 lbs.

Material of stays Steel Diameter at smallest part 1½" Area supported by each stay 60" Working pressure by rules 165 lbs. End plates in steam space:

Material Steel Thickness 15/16" Pitch of stays 15" x 16" How are stays secured Double Nuts Working pressure by rules 140 lbs. Material of stays Steel

Diameter at smallest part 2 5/16" Area supported by each stay 240" Working pressure by rules 145 lbs. Material of Front plates at bottom Steel

Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 13½" Working pressure of plate by rules 284 lbs.

Diameter of tubes 3½" Pitch of tubes 4½" x 4½" Material of tube plates Steel Thickness: Front 7/16" Back 3/4" Mean pitch of stays 10 3/8"

Pitch across wide water spaces 14½" Working pressures by rules 195 lbs. Girders to Chamber tops: Material Iron Depth and

thickness of girder at centre 6½" x 2" Length as per rule 27 3/4" Distance apart 7/4" Number and pitch of Stays in each 2: 7/4"

Working pressure by rules 177 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

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