

REPORT ON MACHINERY.

Port of *Glasgow.*

Received at London Office

3 AUG 1900

No. in Survey held at *Glasgow.*Date, first Survey *21st Sept. 1899* Last Survey *27th July 1900.*

Reg. Book.

(Number of Visits *5th*)677 on the *Screw Steamer "Amstelland"*Gross *4170*
Tons Net *2636*Master *J. de Vries* Built at *Port Glasgow.* By whom built *Russell & Co.*When built *1900*Engines made at *Glasgow.* By whom made *Dunsmuir & Jackson.* when made *1900*Boilers made at *Glasgow.* By whom made *Dunsmuir & Jackson.* when made *1900.*Registered Horse Power Owners *Ruid America dijn* Port belonging to *Hufterdauw.*Nom. Horse Power as per Section 28 *449.* Is Refrigerating Machinery fitted *No.* Is Electric Light fitted *Yes.*ENGINES, &c.—Description of Engines *Triple Expansion* No. of Cylinders *Three.* No. of Cranks *Three.*Dia. of Cylinders *24"-42"-69"* Length of Stroke *54"* Revs. per minute *70* Dia. of Screw shaft as per rule *14 1/2"* as fitted *14 1/2"* Lgth. of stern bush *4' 10"*Dia. of Tunnel shaft as per rule *13 1/2"* as fitted *13 1/2"* Dia. of Crank shaft journals as per rule *13 1/2"* as fitted *14"* Dia. of Crank pin *14 1/2"* Size of Crank webs *24"x9 1/2"* Dia. of thrust shaft undercollars *14"* Dia. of screw *14 1/2"* Pitch of screw *19 1/2"* No. of blades *4* State whether moveable *Yes.* Total surface *86 Sq. ft.*No. of Feed pumps *Two* Diameter of ditto *4 1/2"* Stroke *26"* Can one be overhauled while the other is at work *Yes.* *Revs. pumps*No. of Bilge pumps *Two* Diameter of ditto *5"* Stroke *26"* Can one be overhauled while the other is at work *Yes.* *2 (10 1/2"x8"x18")*No. of Donkey Engines *5.* Sizes of Pumps *3 1/2"x4 1/2"* *3 1/2"x4 1/2"* *3 1/2"x4 1/2"* and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room *Three: 3 1/2"x4 1/2"* In Holds, &c. *No. 1 Hold: Two-3 1/2"x4 1/2"* *No. 2 Hold: Two-3 1/2"x4 1/2"* *Tunnel well: One-2 1/2"x4 1/2"*No. of bilge injections *1* sizes *6 1/2"x4 1/2"* 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.*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.*That 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 *New vessel.* Is the screw shaft tunnel watertight *Yes.*Is it fitted with a watertight door *Yes.* worked from *Top platform in Engine Room.*BOILERS, &c.—(Letter for record *S.*) Total Heating Surface of Boilers *6296 Sq. ft.* Is forced draft fitted *Yes.*No. and Description of Boilers *Three: Cylindrical: Single ended. Working Pressure 180 lbs.* Tested by hydraulic pressure to *360 lbs.*Date of test *28/5/00* Can each boiler be worked separately *Yes.* Area of fire grate in each boiler *50 Sq. ft.* No. and Description of safety valves toeach boiler *2: Direct Spring.* Area of each valve *8.29"* 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 24"* Mean dia. of boilers *14' 6"* Length *11' 6"* Material of shell plates *Steel*Thickness *1 1/2"* Range of tensile strength *28-32 tons* Are they welded or flanged *No.* Descrip. of riveting: cir. seams *Lap Double long.* seams *2 1/2" Butt Strap.*Diameter of rivet holes in long. seams *1 3/8"* Pitch of rivets *9 1/4"* *14 1/2"* *Lap of plates on* width of butt straps *20 1/2"*Centages of strength of longitudinal joint rivets *88 1/2%* Working pressure of shell by rules *208 lbs.* Size of manhole in shell *16"x12"*Size of compensating ring *King flange &c.* and Description of Furnaces in each boiler *3: Monomani.* Material *Steel* Outside diameter *44"*Length of plain part top *3' 1/4"* Thickness of plates crown *3 1/2"* Description of longitudinal joint *Weld.* No. of strengthening rings *4*Working pressure of furnace by the rules *185 lbs.* Combustion chamber plates: Material *Steel* Thickness: Sides *3/4"* Back *3/4"* Top *3/4"* Bottom *3/4"*Pitch of stays to ditto: Sides *7 1/2"x7 1/2"* Back *8"x7 1/2"* Top *7 1/2"x7 1/2"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *185 lbs.*Material of stays *Steel* Diameter at smallest part *1 1/8"* Area supported by each stay *60"* Working pressure by rules *194 lbs.* End plates in steam space:Material *Steel* Thickness *1 1/2"* Pitch of stays *17"x15 1/2"* How are stays secured *Double nuts* Working pressure by rules *180 lbs.* Material of stays *Steel*Diameter at smallest part *2 3/8"* Area supported by each stay *263"* Working pressure by rules *208 lbs.* Material of Front plates at bottom *Steel*Thickness *1 1/2"* Material of Lower back plate *Steel* Thickness *1 1/2"* Greatest pitch of stays *13 1/2"* Working pressure of plate by rules *185 lbs.*Diameter of tubes *2 1/2"* Pitch of tubes *5 1/2"x5 1/2"* Material of tube plates *Steel* Thickness: Front *3/2"* Back *3/4"* Mean pitch of stays *9 1/2"*Pitch across wide water spaces *13 1/2"* Working pressures by rules *185 lbs.* *231 lbs.* Girders to Chamber tops: Material *Steel* Depth andThickness of girder at centre *8"x2"* Length as per rule *32'* Distance apart *7 1/4"* Number and pitch of Stays in each *3: 7 1/2"*Working pressure by rules *208 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

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

Riveted 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

GRK352-0073

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