

REPORT ON MACHINERY.

No. 57450

(Received in London Office 4/8/81)

No. in Survey held at Glasgow & Whiteinch Date, first Survey 7.4.80 Last Survey 13th July 1881
 Reg. Book. 243404

on the S.S. "Ibana" now "Atlantique" Tons 1916.60

Master not known Built at Whiteinch When built 1881

Engines made at Glasgow By whom made J. J. Thomson when made 1881

Boilers made at " By whom made " when made 1881

Registered Horse Power 300 Owners J. M. Good Emile Bossiere Port belonging to St. Pierre

ENGINES, &c.—

Description of Engines Compound Inverted Direct Acting
 Diameter of Cylinders 36 & 68 Length of Stroke 42 No. of Rev. per minute 70 Point of Cut off, High Pressure 29 Low Pressure 29
 Diameter of Screw shaft 11 5/8 Diameter of Tunnel shaft 11 Diameter of Crank shaft journals 11 1/4 Diameter of Crank pin 11 1/4 size of Crank webs 1 1/2 x 8 1/2
 Diameter of screw 15.0 Pitch of screw 18.0 No. of blades 4 state whether moveable no total surface 65.58 Sq feet
 No. of Feed pumps two diameter of ditto 3 3/4 Stroke 21" Can one be overhauled while the other is at work yes
 No. of Bilge pumps two diameter of ditto 4 1/2 Stroke 21" Can one be overhauled while the other is at work yes
 Where do they pump from Engine Room, Stowhole & Cargo Holds
 No. of Donkey Engines one Size of Pumps 4 1/2 x 8 Where do they pump from Sea, Hot well & bilges.

Are all the bilge suction pipes fitted with roses yes Are the roses always accessible yes Are the sluices on Engine room bulkheads always accessible Value on hold side of bulkhead
 No. of bilge injections one and sizes 4" Are they connected to condenser, or to circulating pump to circulating pump.
 How are the pumps worked by Levers connected to crosshead.
 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 stowhole plates yes Are the discharge pipes above or below the deep water line on line
 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 bilge pipes to fore & main Holds How are they protected by wood Casement.
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times yes
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock on Slip before Ship was launched
 Is the screw shaft tunnel watertight yes and fitted with a sluice door yes worked from top of E. Room Skylight.

BOILERS, &c.—

Number of Boilers two Description Round Horizontal Multitubular all Steel except tubes to stays
 Working Pressure 75 lbs Tested by hydraulic pressure to 150 lbs per sq Date of test 6th June 1881
 Description of superheating apparatus or steam chest Horizontal Reversing
 Can each boiler be worked separately yes Can the superheater be shut off and the boiler worked separately no Superheater
 No. of square feet of fire grate surface in each boiler 68 sq feet Description of safety valves Direct Spring
 No. to each boiler two area of each valve 2.3.76 sq Are they fitted with easing gear yes
 No. of safety valves to superheater no Superheater area of each valve — are they fitted with easing gear —
 Smallest distance between boilers and bunkers or woodwork 11"
 Diameter of boilers 13.7" Length of boilers 10.6" description of riveting of shell long. seams double riveted circum. seams Double
 Thickness of shell plates 3/4 diameter of rivet holes 1 3/16 whether punched or drilled drilled pitch of rivets 4"
 Lap of plating 1 1/2 Straps per centage of strength of longitudinal joint 70 working pressure of shell by rules 80 lbs
 Size of manholes in shell 15 1/2 x 12 size of compensating rings 5 1/4 x 1 1/4
 No. of Furnaces in each boiler four outside diameter 35" length, top 7.0" bottom 9.6"
 Thickness of plates 7/16 full description of joint double butt straps rings are fitted 7 on bottom greatest length between rings —
 Working pressure of furnace by the rules 75 lbs
 Combustion chamber plating, thickness, sides 7/16 full back 7/16 x 1/2 top 1/2
 Pitch of stays to ditto sides 8 3/4 x 7 1/2 back 8 3/4 x 7 3/4 top 9 x 9
 If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 76 lbs for sides & back
 Diameter of stays at smallest part 1 1/4 working pressure of ditto by rules 112 lbs for side stays, 108 lbs for back stays, 91 lbs for top stays and large riveted washers 12 x 2
 End plates in steam space, thickness 7/16 full pitch of stays to ditto 18 x 18 how stays are secured double nuts &c
 Working pressure by rules — diameter of stays at smallest part 2 1/2 working pressure by rules 90 lbs
 Front plates at bottom, thickness 5/8 Back plates, thickness 5/8 greatest pitch of stays 12 working pressure by rules 83 lbs

5450 gls

Diameter of tubes $3\frac{3}{4}$ pitch of tubes 5×5 thickness of tube plates, front $\frac{1}{16}$ back $\frac{5}{8}$
 How stayed Stay tubes pitch of stays 10×10 & 10×13 width of water spaces 6
 Diameter of Superheater or Steam chest $4\frac{1}{2}$ length 10.0
 Thickness of plates $\frac{7}{16}$ description of longitudinal joint *lap double riveted* diameter of rivet holes $\frac{13}{16}$ pitch of rivets 3
 Working pressure of shell by rules 161 lbs Diameter of flue *No flue* thickness of plates
 If stiffened with rings distance between rings Working pressure by rules
 End plates of superheater, or steam chest; thickness $\frac{7}{16}$ How stayed *by three bar stays 2 diameter*
 Superheater or steam chest; how connected to boiler *by neck piece*

DONKEY BOILER— Description *Round upright inside steel*
 Made at *Glasgow* By whom made *J. & J. Thomson* when made *1881*
 Where fixed *on Main Deck* working pressure *60 lbs* Tested by hydraulic pressure to *120 lbs per sq in* No. of Certificate *5444*
 Fire grate area *18* sq feet Description of safety valves *Direct Spring* No. of safety valves *one* area of each *12.56* sq
 If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *No*
 Diameter of donkey boiler 5.9 length *height 11.6* description of riveting *lap single, and double*
 thickness of shell plates $\frac{1}{2}$ diameter of rivet holes $\frac{7}{8}$ whether punched or drilled *punched*
 pitch of rivets $2\frac{1}{4}$ lap of plating $2\frac{3}{4}$ per centage of strength of joint *53*
 thickness of crown plates $\frac{7}{16}$ steel stayed by *four 1 1/4 bar stays & uptake*
 Diameter of furnace, top 4.9 bottom 5.2 height of furnace 5.3
 thickness of plates $\frac{7}{16}$ steel description of joint *lap single*
 thickness of furnace crown plates $\frac{7}{16}$ steel stayed by *four 1 1/4 bar stays & uptake*
 Working pressure of shell by rules 59.5 lbs working pressure of furnace by rules 55.5 lbs
 diameter of uptake 15 thickness of plates $\frac{3}{8}$ thickness of water tubes $\frac{3}{8}$ *Four tubes*

The foregoing is a correct description,
John & James Thomson Manufacturers

General Remarks (State quality of workmanship, opinions as to class, &c. *The Engines and Boilers have*)
been carefully examined during construction by us, the quality of
workmanship is good. the Machinery and Boilers are now in good order
and safe working condition. and are in our opinion eligible to be noted
in the Register Book **LLOYD'S. M.C. 7.81.**

His certificate that this vessel
is eligible to have the registration
is hereby recorded
J.M. 4/8/81

The amount of Entry Fee 3 : : : received by me,
 Special 35 : : :
 Testing steel 4 : : :
 Certificate (if required) 4 : : : *14th July 1881*
 (Travelling Expenses, if any, £ 1.10)

Andrew G. Heron
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute *Friday, August, 5th 18 81.*

Blyde District
 Lloyd's Register Foundation