

REPORT ON MACHINERY.

No. 5450

(Received in London Office)

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

Reg. Book. 2434.04
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. Wood Emile Bossiere Port belonging to Stavre

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 2.9 Low Pressure 2.9
Diameter of Screw shaft 11 5/8 Diameter of Tunnel shaft 11 Diameter of Crank shaft journals 11 3/4 Diameter of Crank pin 11 3/4 size of Crank webs 15 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, Stokehold & 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
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 stokehold 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 Ship 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
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 Re-circulating
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 36 & 68 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 1/2
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 sides, 108 lbs for back, 91 lbs for top
End plates in steam space, thickness 7/16 full pitch of stays to ditto 18 x 18 how stays are secured double nuts &
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

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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 & 10×15 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. in.
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 $2\frac{1}{4}$ per centage of strength of joint 53
thickness of crown plates $\frac{7}{16}$ steel stayed by four $1\frac{1}{4}$ bar stays & uptake
Diameter of furnace, top 4.9 bottom 5.2 height length 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 $1\frac{1}{4}$ 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

Certificate (if required) .. £ 4 : 4 : , 14th July 1881

To be sent as per margin.

(Travelling Expenses, if any, £ 1.10)

Committee's Minute

Friday, August, 5th 18 81.

Andrew G. Brown & J.M. G. G.
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Glyde District

Lloyd's Register
Foundation