

SHIP'S NAME *S.S. "Auranne" 24073 Iron*

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

Rev 24/7/19
11.20

ENGINES.

Description *Compound, Inverted, Direct-Acting*
 Made by *Messrs Jas. Howden & Coy*
 When *1899* At *Glasgow*
 Diameter of cylinder *32 & 62* Length of stroke *36"*
 No. of revolutions per minute *90 approx*
 Point of cut off *Variable*
 Diameter of screw shaft *10 1/2"*
 Diameter of crank shaft journals *10 1/2"*
 Diameter of screw, or of paddle wheel *12 & 6"*
 Pitch of screw *14 & 9"*
 No. of blades *Four* Total surface *60 sq. ft.*
 No. of bilge pumps *One* and sizes *4 1/2" x 18"*
 Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *One* and sizes *4 1/2" x 18"*
 What gauges are there attached to the engines and boilers ... *No steam in stokehold, One Str., One compound, One Vacuum in C. Room*
 Description and size of Donkey Pumps ... *Two double-acting, 4" x 9"*
 Where do they pump from ... *Sea, Hotwell & bilges*
 No. of bilge injections *One* and sizes *3/4" dia.*
 Are they connected to air, or circulating pumps *Circulating*
 Is there a hand pump in the engine room *Yes*
 Can it be worked by the main engines *No*
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

MAIN BOILERS.

Number *Two* Description *Round, horizontal*
 Made by *Messrs Jas. Howden & Coy*
 When *1899* At *Glasgow*
 Working pressure *40 lbs*
 Tested by hydraulic pressure to *140 lbs* Date *4/5/99*
 Description of super-heating apparatus *None, vertical steam done*
 Can each boiler be worked separately *Yes*

Can the super-heater be shut off and the boilers worked separately *Yes*
 Description and area of safety valves on each boiler ... *Two lever weighted valves, not checked; each 28.2 sq. area*
 No. of square feet of fire-grate surface in each boiler *40 sq. ft.*
 Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes*
 Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times ... *Yes*

DONKEY BOILER.

Description *Round vertical*
 Where fixed *In stokehold*
 Working pressure *50 lbs*

Tested by hydraulic pressure to *110 lbs*, Date *4/5/99*
 Description and area of safety valves *Two lever weighted valves, not checked; 4.1 sq. in. area*
 No. of square feet of fire grate *12 sq. ft.*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *Yes*
 Are they Kingston valves or common cocks ... *Screw down valves, cocks fitted with check valves*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *All except blow off valves as high as bunkers with all no.*
 Are the discharge pipes above or below the deep water line *Above*
 Are they each fitted with a discharge valve on the plating of the vessel *Yes*

What pipes are carried through the bunkers *None*
 How are they protected *None*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *New ship, before being launched.*
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes*
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Water tight door*

James Howden & Co Manufacturers.

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Auranne"* owned by *Maurel & H. Proum* of the Port of *Bordeaux* of *1228* Tons Register, and *170* Registered Horse Power, and that they have been carefully inspected and examined by me at *Glasgow & Port Glasgow* and found to be at this date, viz., *July 18* 18*99* in good order and safe working condition.

Amount of Fee for Survey £ *8.10*
 (Travelling Expenses, if any, £)

Alfred H. Alchin
 Engineer Surveyor to Lloyd's Register of Shipping.
 Clyde District

Report (if any) on Hull of Vessel. No. *2613* Port *Glasgow*

The machinery and boiler of this vessel are reported to be in good working order & in accordance with the Rules except as regards the enclosing of the safety valves which the General Committee decided to dispense with in this instance (Bill endorsement attached)

It is submitted the vessel is eligible to have a Machinery Certificate from July 1879 and a corresponding notation of Lloyd's in the Register Book

J. Muller
25/7/79



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