

20745 Lm

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

No 294/28

ENGINES. *New*

Description *Compound Inverted Direct Acting* Are all the bilge suction pipes fitted with roses *Yes*
 Made by *Smith Brothers* No. of feed pumps *One* and sizes *4" dia & 13 1/2" stroke*
 When *18 7/8* At *Glasgow* What gauges are there attached to the engines and boilers ... *Two Steam and one Vacuum*
 Diameter of cylinder *22" & 38"* Length of stroke *24"* Description and size of Donkey Pumps ... *Double acting 4" & 8" stroke*
 No. of revolutions per minute *84* Where do they pump from ... *From the Sea & bilge*
 Point of cut off *1/2" of the* No. of bilge injections *One* and sizes *3"*
 Diameter of screw shaft *4 1/2"* Are they connected to air, or circulating pumps *To Circulating*
 Diameter of crank shaft journals *4 1/2"* Is there a hand pump in the engine room *No*
 Diameter of screw, ~~or paddle wheel~~ *10" & 6"* Can it be worked by the main engines
 Pitch of screw *13" & 3"* Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*
 No. of blades, *Four* Total surface *32 ft²*
 No. of bilge pumps *One* and sizes *4" dia & 13 1/2" stroke*
 Do they pump from each compartment *Yes*

MAIN BOILER. *New*

Number *One* Description *Round Horizontal* Can the super-heater be shut off and the boilers worked separately
 Made by *Smith Brothers* Description and area of safety valves on each boiler ... *Two Lever & Weight each 9.96" area*
 When *18 7/8* At *Glasgow* No. of square feet of fire-grate surface in each boiler *27 ft²*
 Working pressure *65 lbs* Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes*
 Tested by hydraulic pressure to *130 lbs*, Date *July 25th 1878* Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times ... *Yes*
 Description of super-heating apparatus *None*
 Can each boiler be worked separately

DONKEY BOILER. *Repaired*

Description *Round Vertical* Tested by hydraulic pressure to *50 lbs*, Date *March 1878*
 Where fixed *On Main Deck* Description and area of safety valves *Lever & Weight 4 1/2" area*
 Working pressure *40 lbs* No. of square feet of fire grate *9 ft²*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *All except the Common Injection Valve which is fitted on the Main Inlet Chest* What pipes are carried through the bunkers *None*
 Are they Kingston valves or common cocks ... *Screw down Valves & Cocks* How are they protected
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *All fitted above the turn of the bilge* When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *Sept 25th 1878*
 Are the discharge pipes above or below the deep water line *Above* Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes*
 Are they each fitted with a discharge valve on the plating of the vessel *Yes* Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Yes*

Smith Brothers & Co Manufacturer.

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 *Pionnier* owned by *A. G. Landonnet*
 of the Port of *Bordeaux* of *438* Tons Register, and *70* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Glasgow*
 and found to be at this date, viz., *April 12th 1878* in good order and safe working condition.

Amount of Fee for Survey ... £ *3 : 10 : -*
 (Travelling Expenses, if any, £ *2 : 2 : 0*)

James Morrison
 Engineer Surveyor to Lloyd's Register of Shipping.

This vessel appears eligible
to be classed with the
notification Lloyd's No
478 who he granted
a Machinery
Certificate

11/11/78

23/4/78



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