

23883 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Recd 16/6/79 11.15

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

Description *Direct Acting J. Condensing*
 Made by *Canal Basin Foundry Co.*
 When *1864* At *Gloucester*
 Diameter of cylinder *22"* Length of stroke *22"*
 No. of revolutions per minute *115*
 Point of cut off *12"*
 Diameter of screw shaft *6"*
 Diameter of crank shaft journals *4"*
 Diameter of screw, or of paddle wheel *7' 4"*
 Pitch of screw *18/4*
 No. of blades, *3* Total surface *20 ft*
 No. of bilge pumps *1* and sizes *3 3/4 + 12 stroke*
 Do they pump from each compartment *Engine room only*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *1* and sizes *3 1/2 + 12 stroke*
 What gauges are there attached to the engines and boilers ... *Two vacuum One steam*
 Description and size of Donkey Pumps ... *Doubling acting 3 dia + 8 stroke*
 Where do they pump from ... *Sea + Bilge*
 No. of bilge injections *One* and sizes *3"*
 Are they connected to air, or circulating pumps *Air*
 Is there a hand pump in the engine room _____
 Can it be worked by the main engines _____
 Is there a deck hose of sufficient length to reach to any part of the vessel } *Yes*

MAIN BOILERS.

Number *One* Description *Cylindrical Multitubular*
 Made by *Messrs Fleety & Son*
 When *Nov 1878* At *Newbury*
 Working pressure *40 lbs*
 Tested by hydraulic pressure to *80 lbs*, Date *9/12/78*
 Description of super-heating apparatus *None*
 Can each boiler be worked separately _____

Can the super-heater be shut off and the boilers worked separately _____
 Description and area of safety valves on each boiler ... *Two dead weight 11.04 each*
 No. of square feet of fire-grate surface in each boiler } *45.5 square feet*
 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 _____
 Where fixed *None*
 Working pressure _____

Tested by hydraulic pressure to _____, Date _____
 Description and area of safety valves *None*
 No. of square feet of fire grate _____

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 ... } *Common cocks*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates } *Yes*
 Are the discharge pipes above or below the deep water line } *Seal*
 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 _____
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock } *This date*
 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 } *No*

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 *Marine* owned by *L. J. Stephens* of the Port of *Plymouth* of *168* Tons Register, and *32* Registered Horse Power, and that they have been carefully inspected and examined by me at *Bristol* and found to be at this date, viz., *February 21st* 1879 in good order and safe working condition.

Amount of Fee for Survey ... £ 5 : 5 :

(Travelling Expenses, if any, £ 2 : 13 : 6)

(1000/31/7/76.)

Charles Jacobs
 Engineer Surveyor to Lloyd's Register of Shipping.
Caniff

IRON 485-0422