

21405 In

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 20/7/78

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

Description *Inverted direct acting surface condensing*
 Made by *R. Harrison & Co. Re-erected made surface condensing. Bainbridge & Hoagor*
 When *June 1878* At *Swansea*
 Diameter of cylinder *32* Length of stroke *24*
 No. of revolutions per minute *64*
 Point of cut off *8"*
 Diameter of screw shaft *6 3/8*
 Diameter of crank shaft journals *6 3/8*
 Diameter of screw, or of paddle wheel *10 1/4*
 Pitch of screw *1 1/4*
 No. of blades, *3* Total surface *32"*
 No. of bilge pumps *1* and sizes *4" dia 12 1/2*
 Do they pump from each compartment *yes*

Are all the bilge suction pipes fitted with roses *yes*
 No. of feed pumps *1* and sizes *4" dia 12 1/2*
 What gauges are there attached to the engines and boilers ... } *One steam*
 } *One vacuum*
 Description and size of Donkey Pumps ... } *Single acting 10 x 8 dia*
 Where do they pump from } *Tanks and Bilges*
 No. of bilge injections *One* and sizes *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 *One* Description *Multipitabular dry bottom*
 Made by *Bainbridge & Hoagor*
 When *Feb 1878* At *Swansea*
 Working pressure *30 lbs*
 Tested by hydraulic pressure to *70 lbs*, Date *5/2/78*
 Description of super-heating apparatus } *None*
 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 spring 15" each*
 No. of square feet of fire-grate surface in each boiler } *53.7*
 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
 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 ... } *One Crown valve remainder 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 } *above*
 Are they each fitted with a discharge valve on the plating of the vessel } *yes*

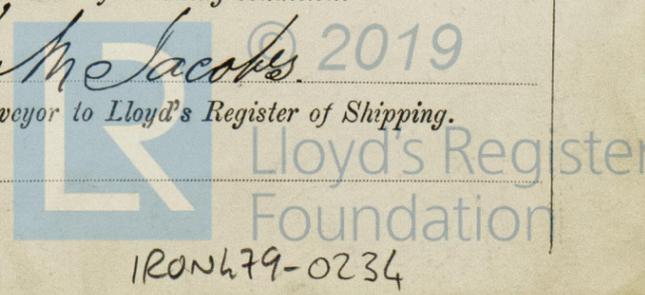
What pipes are carried through the bunkers *none*
 How are they protected
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock } *14th February 1878*
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge } *yes*
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead } *no tunnel required*

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 *Llandaff* owned by *The Baker & Son* of the Port of *Cardiff* of *258* Tons Register, and *65* Registered Horse Power, and that they have been carefully inspected and examined by me at *Swansea and Newport* and found to be at this date, viz., *10th July* 1878 in good order and safe working condition.

Amount of Fee for Survey £ *5* : 0 : 0
 (Travelling Expenses, if any, £ *3* . 7 . 6)

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



The Maching and Boilers of the
 vessel an- fitted in accordance with
 the Rules submitted that she is eligible
 to have the notations Lloyd's 100 C
 and a Maching certificate from
 10 July 1878

[Signature]

23. 7. 78

30th July,

78.



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