

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 3/6/78

Description *Compound Inverted Cy. Surface Condensing*
 Made by *Messrs Hall Russell & Co*
 When *May* 1878 At *Aberdeen*
 Diameter of cylinders *19" x 30 1/2"* Length of stroke *22"*
 No. of revolutions per minute *90*
 Point of cut off *9/16*
 Diameter of screw shaft *5 3/4*
 Diameter of crank shaft journals *5 7/8*
 Diameter of screw, or of paddle wheel *11" 0"*
 Pitch of screw *9" 6"*
 No. of blades, *4* Total surface *30.5 feet*
 No. of bilge pumps *one* and sizes *3" Dia 17" Stroke*
 Do they pump from each compartment *yes*

Are all the bilge suction pipes fitted with roses *yes*
 No. of feed pumps *one* and sizes *3" Dia 17" Stroke*
 What gauges are there attached to the engines and boilers ... *2 Water on boiler one Pressure in stoke hold one vacuum on Engines*
 Description and size of *one inverted Cy 8" Dia*
 Donkey Pumps ... *10" Stroke 4 1/2" Dia D.A. Pump*
 Where do they pump from ... *(Sea Bilge Tank, Holds, Hot Well, 25 boiler through Condenser through ship's side & on Deck)*
 No. of bilge injections *one* and sizes *2 1/2" bore*
 Are they connected to air, or circulating pumps *air pump*
 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 *Circular Tubular*
 Made by *Messrs Hall Russell & Co*
 When *May* 1878 At *Aberdeen*
 Working pressure *62 lbs*
 Tested by hydraulic pressure to *133*, Date
 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 *2 Hall Russell's Spring 18.2 area*
 No. of square feet of fire-grate surface in each boiler *35 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 *one vertical round 8" 7/8 x 4" 0 1/2"*
2 holloway tubes
 Where fixed *Stoke hold*
 Working pressure *60 lbs*

Tested by hydraulic pressure to *120 lbs*, Date
 Description and area of safety valves *one Spring 4.9 area*
 No. of square feet of fire grate *8 feet*

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 ... *Cocks & valves*
 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 *before launch*
 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*

Hall Russell & 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 "*Benzamain*" owned by *Messrs J & A Davidson* of the Port of *Aberdeen* of *43* Tons Register, and *43* Registered Horse Power, and that they have been carefully inspected and examined by me at *Aberdeen* and found to be at this date, viz., *25th May* 1878 in good order and safe working condition.

Amount of Fee for Survey ... £ 5: 0: 0

(Travelling Expenses, if any, £ 5: 9: 6)

[1000-1/9/76.]

Yes received of me i / pane
and forwarded to Dundee

John Murray
 Engineer Surveyor to Lloyd's Register of Shipping.

Dundee

IRON 478-0019

The Engines and Boiler of this vessel are fitted
in accordance with the Committee's requirements submitted
That she is eligible to have the notification
Lloyd's M.C. in the Register Book and a
mating certificate June 25th 1878

MD 3.6.78



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Foundation