

## LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

## ENGINES.

Dec 5/8 179

Description *Imputed, Surface Condensing*  
 Made by *Rankin & Co*  
 When *1876* At *Greenock*  
 Diameter of cylinder *20" & 40* Length of stroke *27" inches*  
 No. of revolutions per minute *eighty six*  
 Point of cut off *twenty one inches*  
 Diameter of screw shaft *seven inches* 7 in  
 Diameter of crank shaft journals *seven inches* 7 in  
 Diameter of screw, ~~or of paddle wheel~~ *ten feet* 10 ft  
 Pitch of screw *twelve feet* 12 ft  
 No. of blades, *three* Total surface *twenty seven feet*  
 No. of bilge pumps *one* and sizes *2 1/2 inches*  
 Do they pump from each compartment *yes*

Are all the bilge suction pipes fitted with roses *yes*  
 No. of feed pumps *one* and sizes *2 1/2 inches*  
 What gauges are there attached to the engines and boilers ... *one to Boiler and one to Engine (Bourdon)*  
 Description and size of Donkey Pumps ... *one inch & 4 inch*  
 Where do they pump from ... *Sea, Bilge, & Ballast tank*  
 No. of bilge injections *one* and sizes *3 1/2 inches*  
 Are they connected to air, or circulating pumps *Circulating 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 *Multitubular*  
 Made by *Rankin*  
 When *1876* At *Greenock*  
 Working pressure *65 lb*  
 Tested by hydraulic pressure to \_\_\_\_\_, Date *1876*  
 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 *flat surface valves*  
 No. of square feet of fire-grate surface in each boiler *12" 5664*  
 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 *Vertical*  
 Where fixed *Stoke Hole*  
 Working pressure *50 lb*

Tested by hydraulic pressure to \_\_\_\_\_, Date *1876*  
 Description and area of safety valves *Conical 7" 8520*  
 No. of square feet of fire grate *12 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 ... *Barman 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 *yes*  
 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 *December 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 *yes*

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 *Daum* owned by *The Portland & Belfast S.N.C.* of the Port of *Portland* of *522* Tons Register, and *75* Registered Horse Power, and that they have been carefully inspected and examined by me at *Melbourne* and found to be at this date, viz., *April 23* 18 *79* in good order and safe working condition.

Amount of Fee for Survey ... £ *9 : 9 :*(Travelling Expenses, if any, £ *none*)

*See Phragos in other report S.S.*

*John Sinclair*  
 Engineer Surveyor to Lloyd's Register of Shipping.



It is submitted that  
is eligible to have the notification  
Lloyd's recorded in the  
Register Book and a  
certificate printed from  
April 23<sup>rd</sup> 1879

Milton

5/8/79

THE REGISTER OF BUILDING AND CONSTRUCTION

ENGINEERS' REPORT ON THE

ENGINEERS

MAIN BOILER

DOCKING BOILER

THE REGISTER OF BUILDING AND CONSTRUCTION



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