

22135 Iron

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

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

Description *Compound Inverted*  
 Made by *Henderson Colburn & Co*  
 When *1874* At *Renfrew*  
 Diameter of cylinder *57 1/2* Length of stroke *54*  
 No. of revolutions per minute *50*  
 Point of cut off *not ascertained*  
 Diameter of screw shaft *15 inches*  
 Diameter of crank shaft journals  
 Diameter of screw, or of paddle wheel *18 feet*  
 Pitch of screw *30 ft stated*  
 No. of blades, *4* Total surface  
 No. of bilge pumps *2* and sizes *7 1/2*  
 Do they pump from each compartment

Are all the bilge suction pipes fitted with roses *yes*  
 No. of feed pumps *2* and sizes *7 1/2 dia*  
 What gauges are there attached to the engines and boilers ...  
 Description and size of *2 Double acting*  
 Donkey Pumps ... *x 9" stroke*  
 Where do they pump from *Sea Bilges*  
 No. of bilge injections *One* and sizes *about 4"*  
 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 *Six* Description *Cylindrical*  
 Made by *Henderson Colburn & Co*  
 When *1874* At *Renfrew*  
 Working pressure *65 lb*  
 Tested by hydraulic pressure to *not known* Date  
 Description of super-heating apparatus *3 horizontal chests in uptake*  
 Can each boiler be worked separately *yes*

Can the super-heater be shut off and the boilers worked separately *no*  
 Description and area of safety valves on each boiler *Seven & weight two 15.9 sq inches each*  
 No. of square feet of fire-grate surface in each boiler  
 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 *Tubular*  
 Where fixed *Stoke hold*  
 Working pressure *30 lb*

Tested by hydraulic pressure to *not ascertained* 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 ... *Valves & Cocks*  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *not all*  
 Are the discharge pipes above or below the deep water line  
 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 *at this survey*  
 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 *Vancouver* owned by  
 of the Port of *London* of *1988* Tons Register, and *530* Registered Horse Power,  
 and that they have been carefully inspected and examined by me at *London*  
 and found to be at this date, viz., *30th October* 18 *78* in good order and safe working condition.

Amount of Fee for Survey ... .. £ *...*  
 (Travelling Expenses, if any, £ *...*)

*James Milton*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Form No. 22135