

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

*Re 1578/78*

Description *Compound Inverted Direct Acting*  
 Made by *Messrs Hutson & Corbett*  
 When *1878* At *Glasgow*  
 Diameter of cylinder *8 20 x 35* Length of stroke *24"*  
 No. of revolutions per minute {  
 Point of cut off { *not ascertained*  
 Diameter of screw shaft *6"*  
 Diameter of crank shaft journals *4"*  
 Diameter of screw, ~~or of paddle wheel~~ *9 ft 2"*  
 Pitch of screw *13 1/2"*  
 No. of blades, *four* Total surface  
 No. of bilge pumps *One* and sizes *3 1/4 x 13 1/2 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 1/4 x 13 1/2 Stroke*  
 What gauges are there attached to the engines and boilers ... *One Steam, Pressure & One Compound*  
 Description and size of Donkey Pumps ... *Double acting 4 1/2 x 9 Stroke 8 x 10 Stroke*  
 Where do they pump from ... *From the sea, bilge & Hotwell*  
 No. of bilge injections *One* and sizes *3"*  
 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 *Round Horizontal*  
 Made by *Messrs Hutson & Corbett*  
 When *1878* At *Glasgow*  
 Working pressure *40 lbs*  
 Tested by hydraulic pressure to *140 lbs*, Date *June 26th 1878*  
 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 Direct Spring each 9.6" area*  
 No. of square feet of fire-grate surface in each boiler *32 ft 2"*  
 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 *Round Vertical*  
 Where fixed *In Stowhold*  
 Working pressure *30 lbs*

Tested by hydraulic pressure to *100 lbs*, Date *June 25th 1878*  
 Description and area of safety valves *Direct Spring 4" area*  
 No. of square feet of fire grate *10 ft 1"*

### 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 ... *Screw down Valves & Cocks*  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *All fitted above the turn of the Bilge*  
 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 *On ship previous to being launched*  
 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*

*Hutson & Corbett* 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 *"Locatario"* owned by *Dansey & Robinson* of the Port of *London* of *192* Tons Register, and *60* Registered Horse Power, and that they have been carefully inspected and examined by me at *Glasgow* and found to be at this date, viz., *August 12th 1878* in good order and safe working condition.

Amount of Fee for Survey ... £ *3 : 0 : 0* Paid  
 (Travelling Expenses, if any, £ *1 : 1 : 0*)

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



The Working the vessel is  
filled in accordance with the  
Committee's requirements, submitted  
that she is eligible to have  
Lloyd's M.C. and a working  
Certificate from 12 August  
1878

*W.D.*

15-8-78

