

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Rec 30/5/78

Description *Compound. vertical.*  
 Made by *Messrs R & W Hawthorn*  
 When *April* 1878 At *Newcastle*  
 Diameter of cylinders *32 & 62* Length of stroke *40*  
 No. of revolutions per minute *60*  
 Point of cut off *5/8 & 1/2*  
 Diameter of screw shaft *10 1/2"*  
 Diameter of crank shaft journals *10 1/2"*  
 Diameter of screw, or of paddle wheel *15 ft*  
 Pitch of screw *13 ft to 17 ft*  
 No. of blades, *4* Total surface *58 sq ft*  
 No. of bilge pumps *2* and sizes *3 1/4" x 20"*  
 Do they pump from each compartment *yes*

Are all the bilge suction pipes fitted with roses *yes*  
 No. of feed pumps *2* and sizes *3 1/4" x 20"*  
 What gauges are there attached to the engines and boilers ... *1 Steam, 1 Cond., 1 Compound in E.R. & 2 Steam in S.H.*  
 Description and size of Donkey Pumps ... *1 Ballast 8" x 14" double acting 1 Boiler 3 1/2" x 8" do do Sea. Engine room, No. Hold.*  
 Where do they pump from ... *4 Hold, aft well in tunnel aft Hold, a tank, No tank below - 1 Boiler*  
 No. of bilge injections *1* and sizes *4"*  
 Are they connected to air, or circulating pumps *air*  
 Is there a hand pump in the engine room *Donkey worked by hand*  
 Can it be worked by the main engines *hand*  
 Is there a deck hose of sufficient length to reach to any part of the vessel *yes*

### MAIN BOILERS.

Number *Two* Description *Cylindrical*  
 Made by *Messrs R & W Hawthorn*  
 When *April* 1878 At *Newcastle*  
 Working pressure *75 lbs*  
 Tested by hydraulic pressure to *150 lbs*, Date *3.4.78*  
 Description of super-heating apparatus *Receiver partially 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 ... *2 Spring valves 4" dia = 2.5 area*  
 No. of square feet of fire-grate surface in each boiler *45 ft*  
 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. Cylindrical.*  
 Where fixed *Stoke hole*  
 Working pressure *45 lbs*

Tested by hydraulic pressure to *80 lbs*, Date *16.3.78*  
 Description and area of safety valves *1 Valve 3 1/2" dia = 9.5 area*  
 No. of square feet of fire grate *21 ft*

### 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 ... *2 Kingston valves & 5 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 *now*  
 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*

*R & W Hawthorn* 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 *Humbert* owned by *Mr J. H. Davison* of the Port of *London* of *1240.61* Tons Register, and *100* Registered Horse Power, and that they have been carefully inspected and examined by me at *Newcastle* and found to be at this date, viz., *1<sup>st</sup> May* 1878 in good order and safe working condition.

Amount of Fee for Survey ... £ *9 : 0 : 0* } Paid by *Subj*  
 (Travelling Expenses, if any, £ *0 : 5 : 0* } we *27/5/78*

*John Prosser*  
 Engineer Surveyor to Lloyd's Register of Shipping.  
*North Shields*



It is submitted that this vessel  
is eligible to have a machinery  
certificate granted and  
Lloyd's M.C. recorded

Nov 31/5778



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