

20967 Iron *Humbert*

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 30/5/78

Report (if any) on Hull of Vessel. Port Newcastle No. 12980

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 Comp. 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 ... *7 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*
R & W Hawthorn Manufacturer.

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*

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., *1st 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*)

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

IRON 478-0098

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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