

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec. 579/79

Report (if any) on Hull of Vessel. Port Newcastle No. 1760

Description *Inverted Compound*
 Made by *J. Clark & Co*
 When *July 1878* At *Newcastle*
 Diameter of cylinders *29" & 56"* Length of stroke *36"*
 No. of revolutions per minute *65*
 Point of cut off *5/8*
 Diameter of screw shaft *10 1/4"*
 Diameter of crank shaft journals *10"*
 Diameter of screw, or of paddle wheel *14 ft*
 Pitch of screw *16 ft*
 No. of blades, *4* Total surface *48 sq feet*
 No. of bilge pumps *2* and sizes *4" x 18"*
 Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *2* and sizes *4" x 18"*
 What gauges are there attached to the engines and boilers ... *1 Steam, 1 Case, 1 Compound in E.R., 2 Steam in Stokehole*
 Description and size of Donkey Pumps ... *Ballast - 8" x 10 double acting Boiler 4 x 10 do do*
 Where do they pump from ... *Fore hold, Engine room, aft hold, Fore tank, aft tank, Sea Condenser*
 No. of bilge injections *1* and sizes *4 1/2" diam*
 Are they connected to air, or circulating pumps *no*
 Is there a hand pump in the engine room *No. Donkey can be*
 Can it be worked by the main engines *worked by 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 *J. Clark & Co*
 When *July 1878* At *Newcastle*
 Working pressure *70 lbs*
 Tested by hydraulic pressure to *140 lbs*, Date *15.5.78*
 Description of super-heating apparatus *none*
 Can each boiler be worked separately *Yes*

Can the super-heater be shut off and the boilers worked separately *No Superheater*
 Description and area of safety valves on each boiler ... *2 Spring Balves 4" diam = 25 sq in area*
 No. of square feet of fire-grate surface in each boiler *39 sq feet*
 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 *Stokehole*
 Working pressure *50 lbs*

Tested by hydraulic pressure to *100 lbs* Certificate *3 Liverpool Office*, Date *12.7.78*
 Description and area of safety valves *1 Balve 2 1/2" = 6.5" area 328 lbs*
 No. of square feet of fire grate *144 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 ... *2 Screw Balves & 5 cocks also 2 donkey 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 *None*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *None*
 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*

Mosley & Co 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 *Saint Jagan's* owned by *Miss Harriet Ann Moore* of the Port of *Barra* of *874.74* Tons Register, and *130* Registered Horse Power, and that they have been carefully inspected and examined by me at *Newcastle* and found to be at this date, viz., *July 19th 1878* in good order and safe working condition.

Amount of Fee for Survey ... £ *6:10:0* } *Reserve*
 (Travelling Expenses, if any, £ *0:5:0*) } *Allowance*

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

The Meeting and Reading of the account -
are - Jotted in accordance with the
Committee arguments submitted that
she is eligible to have the
notification Lloyd, M.P. and as
meeting certificate June -
19th July - 1878 -

M

6.9.78



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