

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 28/8/79

Description *Compound, Horizontal Surface Condensing*
 Made by *J. Richardson & Sons*
 When *August 1879* At *Hartlepool*
 Diameter of cylinder *28" x 53"* Length of stroke *33"*
 No. of revolutions per minute *About 65*
 Point of cut off *1/2 stroke*
 Diameter of screw shaft *9"*
 Diameter of crank shaft journals *9"* Tunnel shaft *8 1/2"*
 Diameter of screw, or of paddle wheel *13" 0"*
 Pitch of screw *16" 3*
 No. of blades, *4* Total surface *48 sq feet*
 No. of bilge pumps *2* and sizes *2 1/8 x 3 1/4 stroke Single Acting*
 Do they pump from each compartment *From fore hold, after well engine room*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *2* and sizes *3 1/4 x 23 stroke Single Acting*
 What gauges are there attached to the engines and boilers... *See plan*
 Description and size of *No 1 Pump 1 1/2 dia x 9 stroke Double Acting*
 Donkey Pumps... *No 2 3 1/2 x 1/4*
 Where do they pump *No 1 Pumps from ballast tanks & engine room*
 " from *No 2 from sea, hold, & engine room*
 No. of bilge injections *1* and sizes *1 1/2*
 Are they connected to air, or circulating pumps *Circulating Pump*
 Is there a hand pump in the engine room *Donkey works by hand*
 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 *Cylindrical Vertical one end*
 Made by *J. Richardson & Sons*
 When *August 1879* At *Hartlepool*
 Working pressure *70 lbs*
 Tested by hydraulic pressure to *140 lbs*, Date *11/4/79*
 Description of super-heating apparatus *None*
 Can each boiler be worked separately *Only one boiler on ship*

Can the super-heater be shut off and the boilers worked separately *No superheater*
 Description and area of *Two spring valves 1 1/4 dia*
 safety valves on each boiler *Combined area 35.4*
 No. of square feet of fire-grate surface in each boiler *54.5 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... *all except suction pipes & roses in holds when ship is loaded*

DONKEY BOILER

Description *Cylindrical Water tubes in furnace*
 Where fixed *In stokehold*
 Working pressure *70 lbs*

Made by *Clark, Chapman & Furney, Gateshead*
 Tested by hydraulic pressure to *140 lbs*, Date *18/4/79*
 Description and area of safety valves *1 safety 2 1/4 = 7.95 sq in area*
 No. of square feet of fire grate *14 1/2 sq 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... *Stop valves and 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 *Below*
 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 *New*
 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 *Tunnel not water tight but sluice door fitted*

J. Richardson & Sons Manufacturer.
R. C. Hull

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 *Dotaro* owned by *Stub Ljung & Co*
 of the Port of *London* of *874.40* Tons Register, and *110* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Hartlepool*
 and found to be at this date, viz., *12th August 1879* in good order and safe working condition.

Donkey Boiler Survey Fee... £ *5 10 0* received by me.
 Amount of Fee for Survey Certificate... £ *5 10 0*
 Travelling Expenses, if any, £ *0 5 0*

Engineer Surveyor to Lloyd's Register of Shipping.

West Hartlepool

It is submitted that this vessel
is eligible to have a
machinery certificate
granted and Lloyd's Reg

8.79 recorded

Multon

28/8/79



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Foundation