

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 29/7/78

Description *Compound Inverted Surface Condensing*
 Made by *Blair - Co (Lm)*
 When *July 18/8* At *Stockton on Tees*
 Diameter of cylinder *32 x 60* Length of stroke *39*
 No. of revolutions per minute *About 65*
 Point of cut off *1/2 stroke*
 Diameter of screw shaft *1 1/2*
 Diameter of crank shaft journals *11* *Tunnel shaft 10 1/4*
 Diameter of screw, or of paddle wheel *14-6*
 Pitch of screw *16-0*
 No. of blades, *44* Total surface *Not ascertained*
 No. of bilge pumps *2* and sizes *4 x 28 1/2 in. Single Acting*
 Do they pump from each compartment *Fore pump draws from fore, ballast tanks fore hold, wing & Centre of engine room & after well. after pump draws from after well & engine room*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *2* and sizes *4 x 28 1/2 in. Single Acting*
 What gauges are there attached to the engines and boilers ... *3 steam 1 vacuum*
 Description and size of Donkey Pumps *1 1/2 dia x 9 1/2 in. Double Acting 2 1/2 - 4 - 28*
 Where do they pump from *2 pumps from sea, ballast tanks, fore hold & Centre of engine room & after well 2 pumps from sea, hot well, ballast tanks fore hold*
 No. of bilge injections *1* and sizes *6 "outside" engine room*
 Are they connected to air, or circulating pumps *Circulating pump*
 Is there a hand pump in the engine room *Donkeys work 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 *Two* Description *Cylindrical Multitubular*
 Made by *Blair - Co (Lm)*
 When *July 18/8* At *Stockton on Tees*
 Working pressure *76 lbs*
 Tested by hydraulic pressure to *152 lbs*, Date *27/6/78*
 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 *Two spring safety valves on each boiler. Combined area of two valves 19.2*
 No. of square feet of fire-grate surface in each boiler *32.08*
 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 accessible at all times *All except suction pipes - none on holds when ship is loaded*

DONKEY BOILER

Description *Vertical Water tubes in furnace*
 Where fixed *On Deck*
 Working pressure *63 lbs (loaded to)*

Made by *Geo Duncan, West Hartlepool*
 Tested by hydraulic pressure to *140 lbs*, Date *28/6/78*
 Description and area of safety valves *1 Direct & 1 Lever & weight*
 No. of square feet of fire grate *13 3/4* *Combined area 4.09 sq 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 ... *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 *New*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *Yes*
 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 watertight Sluice door fitted*

Robt Blair & Co Ltd
27 Blair

Manufacturers of Engines & Machinery only

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 *Yoe* *See Note annexed* owned by *Turner, Brightman, & Co* of the Port of *London* of *946.42* Tons Register, and *140* Registered Horse Power, and that they have been carefully inspected and examined by me at *Stockton - West Hartlepool* and found to be at this date, viz., *16th July 1878* in good order and safe working condition.

Amount of Fee for Survey ... £ *4:10:0*
Certificate *10:8:0*
 (Travelling expenses, if any, £ *10:8:0*)

Engineer Surveyor to Lloyd's Register of Shipping.

The making of this medal is given
in accordance with the rules
submitted that she is eligible
to have the medal of the
M.C. and a medal certificate
Given - 16th Aug 1878

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30.7.78



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Foundation