

20467 Jan

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Recd 8/4/18

Report (if any) on Hull of Vessel. Report on Engines etc. No. 397

Description *Compound Engine Surface Condensing*  
 Made by *Blair - Co (Lem)*  
 When *March 18/18* At *Stockton*  
 Diameter of cylinder *20 x 3 1/2* Length of stroke *24*  
 No. of revolutions per minute *About 40*  
 Point of cut off *1/2 stroke*  
 Diameter of screw shaft *4"*  
 Diameter of crank shaft journals *4" Linned shaft 6 1/2 dia*  
 Diameter of screw, or of paddle wheel *9.0*  
 Pitch of screw *About 10 1/2*  
 No. of blades, *4* Total surface *Not ascertained*  
 No. of bilge pumps *1* and sizes *3 x 1 1/2 stroke Single acting*  
 Donkey pump from each compartment *From ballast tanks, after well engine room, fore peak - fore hold*

Are all the bilge suction pipes fitted with roses *Yes*  
 No. of feed pumps *1* and sizes *3 x 1 1/2 stroke Single acting*  
 What gauges are there attached to the engines and boilers ... *2 steam 1 vacuum*  
 Description and size of Donkey Pumps ... *One double acting donkey Pump 5 3/4 dia x 8" stroke*  
 Where does donkey pump from *From sea, engine room, ballast tanks fore peak, fore hold & after well*  
 No. of bilge injections *1* and sizes  
 Are they connected to air, or circulating pump *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 *One* Description *Cylindrical Multitubular*  
 Made by *Blair - Co (Lem)*  
 When *March 18/18* At *Stockton*  
 Working pressure *80 lbs*  
 Tested by hydraulic pressure to *160 lbs*, Date *14/2/18*  
 Description of super-heating apparatus *None*  
 Can each boiler be worked separately *Only one boiler in ship*

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 Combined area 16.6 sq in*  
 No. of square feet of fire-grate surface in each boiler *23.22 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 accessible at all times *all except suction pipes & roses in holds when ship is loaded*

### DONKEY BOILER Made by *Head, Wrightson & Co, Stockton*

Description *Vertical Water tubes in Journal*  
 Where fixed *In stockhole*  
 Working pressure *1/3 lbs*

Tested by hydraulic pressure to *160 lbs*, Date *21/2/18*  
 Description and area of safety valves *Two direct steam & spring Combined area 6.2 sq in*  
 No. of square feet of fire grate *11.54 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 common 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 tight and fitted with a sluice door on bulkhead *Jurnal not watertight. Sluice door fitted*

*Rob Blair & Co* & *Wm Blair* Manufacturers of Engines and Main Boilers 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 *"Golla"* owned by *J. M. Leonard & Sons* of the Port of *Middlesbrough* of *295.59* Tons Register, and *55* Registered Horse Power, and that they have been carefully inspected and examined by me at *Stockton & Middlesbrough* and found to be at this date, viz., *22<sup>nd</sup> March 18/18* in good order and safe working condition.

Amount of Fee for Survey ... £ *2 : 5 : 0*  
 Certificate (Travelling Expenses, if any, £) *0 : 5 : 0*

*James Blair* Engineer Surveyor to Lloyd's Register of Shipping.  
*Recd 4<sup>th</sup> April 18/18*  
*James Blair*  
*Wm. Harbottle*

This record is putted in accordance  
with the Committee's opinion, submitted  
that the rule is eligible to have  
the modification Lloyd's M.C.  
and a Machy certificate  
Jan 22 March 1878

*MM*  
8-4-78



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