

19371 Jan

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

Rev 1/10/77

ENGINES.

Description *Inverted compound. Surface condensing*
 Made by *Baltic Engine Works*
 When *1877* At *Hull*
 Diameter of cylinder *17" x 34"* Length of stroke *26"*
 No. of revolutions per minute *82*
 Point of cut off *1/2 of stroke*
 Diameter of screw shaft *5 5/8"*
 Diameter of crank shaft journals *5 5/8"*
 Diameter of screw, or of paddle wheel *7 1/2"*
 Pitch of screw *11 1/6"*
 No. of blades, *4* Total surface _____
 No. of bilge pumps *One* and sizes *2 3/4" dia. 28" stroke*
 Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *One* and sizes *2 3/4" dia. 28" stroke*
 What gauges are there attached to the engines and boilers ... } *One Steam gauge*
 } *One Vacuum gauge*
 Description and size of Donkey Pumps ... } *Vertical; 5" dia. 6" stroke*
 Where do they pump from } *From Bilge, and from Sea.*
 No. of bilge injections *One* and sizes *3" valve*
 Are they connected to air, or circulating pumps *Circulating*
 Is there a hand pump in the engine room *No*
 Can it be worked by the main engines _____
 Is there a deck hose of sufficient length to reach to any part of the vessel } *Yes*

MAIN BOILERS.

Number *One* Description *Circular tubular*
 Made by *Charles D. Halsey & Co*
 When *1877* At *Hull*
 Working pressure *20 lb p. sq. inch*
 Tested by hydraulic pressure to *140 lb*, Date *2. March 77*
 Description of super-heating apparatus } *Vertical steam dome*
 Can each boiler be worked separately _____

Can the super-heater be shut off and the boilers worked separately } _____
 Description and area of safety valves on each boiler } *2 lbs Spring valves*
 } *10.59 sq. in*
 No. of square feet of fire-grate surface in each boiler } *31.5 sq. 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*
 Where fixed *On deck*
 Working pressure *40 lb p. sq. inch*

Tested by hydraulic pressure to *80 lb*, Date *When new*
 Description and area of safety valves *Direct loaded; 4.9 sq. in*
 No. of square feet of fire grate *7.71 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 ... } *Common cocks with guards*
 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 *Donkey discharge*
 How are they protected } *By casing*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock } *2nd, 12th & 16th of March 77*
 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 } *No*

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 *Laimis* owned by *Rawson & Robinson*
 of the Port of *Hull* of *226* Tons Register, and *50* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Hull & Gable*
 and found to be at this date, viz., *September 28th 1877* in good order and safe working condition.

Amount of Fee for Survey ... £ : :
 (Travelling Expenses, if any, £)

Engineer *A. Kyddell*
 Engineer Surveyor to Lloyd's Register of Shipping.