

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Two Cylinder Compound, Horizontal S.C.*
 Made by *Messrs Palmers Coy Limited*
 When *Nov 1878* At *Lanark on Tyne*
 Diameter of cylinders *31" & 51"* Length of stroke *36"*
 No. of revolutions per minute *66*
 Point of cut off *1/2 L.P. 5/8 H.P.*
 Diameter of screw shaft *10 1/2"*
 Diameter of crank shaft journals *10 1/2"*
 Diameter of screw, or of paddle wheel *15 feet*
 Pitch of screw *14" 6 in.*
 No. of blades, *(14)* Total surface *54 sq. feet*
 No. of bilge pumps *(2)* and sizes *4 1/4" dia, 18" stroke*
 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 1/4" dia, 18" stroke*
 What gauges are there attached to the engines and boilers ... *2 Steam to each boiler, 1 Vacuum, & 1 Comp. to engine*
 Description and size of Donkey Pumps ... *"Ballast" 8" dia, 12" stroke D.A. "Boiler" 4" dia, 8" stroke D.A.*
 Where do they pump from ... *"Ballast" from sea, Sinks, & cargo-room, & bilge, "Boiler" from sea, Hotwell, Sinks & all compartments*
 No. of bilge injections *(1)* and sizes *5"*
 Are they connected to air, or circulating pumps *circulating*
 Is there a hand pump in the engine room *No, small donkey*
 Can it be worked by the main engines *can be used as hand pump*
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes from piping & rather hose*

MAIN BOILERS.

Number *Two* Description *Cylindrical Tubular*
 Made by *Messrs Palmers Coy Limited*
 When *Nov 1878* At *Lanark on Tyne*
 Working pressure *80 lbs per sq. inch*
 Tested by hydraulic pressure to *160 lbs*, Date *1.10.78*
 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 valves Palmers = 25 sq. inches*
 No. of square feet of fire-grate surface in each boiler *36 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 roses in holds*

DONKEY BOILER.

Description *Cylindrical Vertical*
 Where fixed *upper deck*
 Working pressure *50 lbs per sq. inch*

Tested by hydraulic pressure to *100 lbs*, Date *3.10.78*
 Description and area of safety valves *(1) dead weight, 9.6 sq. inch*
 No. of square feet of fire grate *19 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 ... *3 Stop Valves, rest are 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 *at deep load line*
 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 *Nov*
 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 *fitted with sluice door and appears water tight*
 Safety valves raised *80 lbs*
 lifted *81 "*
 accumulations *0 "*

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 *"Lanark"* owned by *J. Fenwick & Son*
 of the Port of *Lanark* of *848.81* Tons Register, and *220* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Lanark on Tyne*
 and found to be at this date, viz., *Oct 30th* 1878 in good order and safe working condition.

Amount of Fee for Survey ... £ *10.0.0*
 (Travelling Expenses, if any, £ *0.5.0*)

Engineer Surveyor to Lloyd's Register of Shipping.

The Machine & Boiler of this
vessel are fitted in accordance
with the Committee's requirements
submitted that she is eligible
to have Lloyd's M.C. and
a machine certificate
Given 30 - Oct - 1878

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Foundation