

Iron No. 16430
LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Vertical Inverted Surface Condensing*
 Made by *Marshall Brothers*
 When *1863* At *South Shields*
 Diameter of cylinder *45 1/4 inches* Length of stroke *36 inches*
 No. of revolutions per minute *57*
 Point of cut off *5/8*
 Diameter of screw shaft *9 3/4 inches*
 Diameter of crank shaft journals *9 3/4 inches*
 Diameter of screw, ~~or of paddle wheel~~ *13 feet 6 inches*
 Pitch of screw *17 feet 6 inches*
 No. of blades, *3* Total surface *52 Square feet*
 No. of bilge pumps *2* and sizes *5 1/4 inches D"*
 Do they pump from each compartment *yes*

Are all the bilge suction pipes fitted with roses *yes*
 No. of feed pumps *2* and sizes *5 3/4 inches D"*
 What gauges are there attached to the engines and boilers ... *Bowdon's Steam gauges to each boiler*
 Description and size of Donkey Pumps ... *One double acting Donkey pump 4 1/2 D" 2'*
 Where do they pump from ... *The main one pumps from Bilges all and sea also from Condenser*
 No. of bilge injections *3* and sizes *4 inches pipes*
 Are they connected to air, or circulating pumps *Both*
 Is there a hand pump in the engine room *yes*
 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 *2* Description *Flat sided with half Circular tops and flat bottoms*
 Made by *Cockrell*
 When *1871* At *Seraing*
 Working pressure *25 lbs*
 Tested by hydraulic pressure to *37 lbs*, Date *4 August 76*
 Description of super-heating apparatus *Vertical annular*
 Can each boiler be worked separately *yes*

Can the super-heater be shut off and the boilers worked separately *No*
 Description and area of safety valves on each boiler ... *one lever & direct Weight safety valve on each boiler 29, 464 square inches*
 No. of square feet of fire-grate surface in each boiler *87 square 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. *yes excepting for hole rose with cargo in.*

DONKEY BOILER.

Description *Flat sided with half circular top & bottom*
 fixed *above stoke hole*
 pressure *30 lbs*

Tested by hydraulic pressure to *Can't say*, Date *—*
 Description and area of safety valves *one weighed lever valve*
 No. of square feet of fire grate *20 square feet*

PIPES, COCKS, AND CONNECTIONS.

connections with the sea direct on the skin of the ship *Blow & scums yes sea cocks on pillars*
 they Kingston valves or common cocks ... *Common cocks*
 they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *No*
 discharge pipes above or 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 *None*
 How are they protected *—*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *April 1876*
 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 No, but a sluice valve on engine room bulkhead.*

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 *Pauline David* owned by *David Verbist & Co*
 of the Port of *Antwerp* of *1073* Tons Register, and *200* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Antwerp*
 and found to be at this date, viz., *24th August* 18*76* in good order and safe working condition.

Fee £ 5. 0. 0.

Engineer Surveyor to Lloyd's Register of Shipping.

Recon Lloyd's M.C.
8.76

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