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LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

Two pairs of Engines with fore and aft screws

ENGINES.

Ren 3/7/79

Description *Compound Inverted Direct acting*
 Made by *Wm. Simpson & Co.*
 When *1879* At *Renfrew*
 Diameter of cylinder *31 1/2"* Length of stroke *24"*
 No. of revolutions per minute *Two of each about 100*
 Point of cut off *3/4 of stroke*
 Diameter of screw shaft *5 1/2"*
 Diameter of crank shaft journals *4"*
 Diameter of screw, or of paddle wheel *6' 6"*
 Pitch of screw *14' 6"*
 No. of blades *Four* Total surface *—*
 No. of bilge pumps *One* and sizes *3 1/2" dia x 20 3/4" 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 *3 1/2" dia x 20 3/4" stroke*
 What gauges are there attached to the engines and boilers ... *One Steam & One Vacuum to each pair of Engines*
 Description and size of Donkey Pumps ... *Double acting 3 1/2" x 6"*
 Where do they pump from ... *From the Sea Hotwell & Bilge*
 No. of bilge injections *One* and sizes *3" to each Engine*
 Are they connected to air, or circulating pumps *No Circulating*
 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 *Two* Description *Round Horizontal*
 Made by *Wm. Simpson & Co.*
 When *1879* At *Renfrew*
 Working pressure *60 lbs*
 Tested by hydraulic pressure to *170 lbs* Date *29.4.79*
 Description of super-heating apparatus *Receiver, increased common to both boilers*
 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 ... *Two Direct Spring each 9.62" dia*
 No. of square feet of fire-grate surface in each boiler *40 ft²*
 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 *No Donkey Boiler*
 Where fixed *—*
 Working pressure *—*

Tested by hydraulic pressure to *—*, Date *—*
 Description and area of safety valves *—*
 No. of square feet of fire grate *—*

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 ... *Screw down valves & 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 *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 *On Ship previous to being launched*
 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 *Yes*

Wm. Simpson & Co 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 "Oxton" owned by Birkenhead Dock Commissioners
 of the Port of *Liverpool* of *129* Tons Register, and *98* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Renfrew*
 and found to be at this date, viz., *June 25th 1879* in good order and safe working condition.

Amount of Fee for Survey ... £5 : 7 : 6 paid
 (Travelling Expenses, if any, £1 : 1 : 0)

James Molten
 Engineer Surveyor to Lloyd's Register of Shipping.

(Two) Drawings of Boilers appended

The Maching of this vessel has
been made and fitted in accordance
with the rules submitted that
she is eligible to have Lloyd's
M.C. and a maching certificate
June 25th June 1879.

W. 3.7.79



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Foundation