

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Comp^d Soot & A. S. Condor* Are all the bilge suction pipes fitted with roses *Yes*
 Made by *Messrs Jack & Hay* No. of feed pumps *2* and sizes *4 1/2*
 When *1878* At *Liverpool* What gauges are there attached to the engines and boilers ... *1 Pressure in each stoke hold 1 - " - 1 Bar & one Comp^d in E.R.*
 Diameter of cylinder *18 1/2* Length of stroke *4 1/2*
 No. of revolutions per minute *55*
 Point of cut off *Variable*
 Diameter of screw shaft *13"*
 Diameter of crank shaft journals *14"*
 Diameter of screw, or of paddle wheel *18 ft*
 Pitch of screw *24 ft*
 No. of blades, *4* Total surface *95 ft*
 No. of bilge pumps *2* and sizes *4 1/2*
 Do they pump from each compartment *Yes*
 Description and size of Donkey Pumps ... *1 of 5" plunger Double acting*
 Where do they pump from ... *Sea, bilges, Condor to Boilers deck and overb^d.*
 No. of bilge injections *1* and sizes *4"*
 Are they connected to air, or circulating pumps *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 *Cylindrical Retⁿ Subular* Can the super-heater be shut off and the boilers worked separately *No*
 Made by *Messrs Jack & Hay*
 When *1878* At *Liverpool*
 Working pressure *80 lbs.*
 Tested by hydraulic pressure to *160*, Date *27th May 1878*
 Description of super-heating apparatus *Not any.*
 Can each boiler be worked separately *Yes*
 Description and area of safety valves on each boiler *2 of Spring = 28.2 area each*
 No. of square feet of fire-grate surface in each boiler *108 in each*
 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 *Cylindrical Retⁿ Subular*
 Where fixed *In deck house*
 Working pressure *80*
 Tested by hydraulic pressure to *160*, Date *8th August*
 Description and area of safety valves *Direct load = 9.6 area*
 No. of square feet of fire grate *18 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 & chests*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *Bottom blow off cocks are level. all others above*
 Are the discharge pipes above or below the deep water line *Level*
 Are they each fitted with a discharge valve on the plating of the vessel *Yes*
 What pipes are carried through the bunkers *Not any*
 How are they protected *at this time*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *at this time*
 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*

James Jack & 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 *"City of London"* owned by *W. H. Ross & Co*
 of the Port of *Liverpool* of *1816* Tons Register, and *300* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Liverpool*
 and found to be at this date, viz., *23rd August* 1878 in good order and safe working condition.

Amount of Fee for Survey ... £15 : : Rec^d by me
 (Travelling Expenses, if any, £ *3/9/78* J. F. L.)

Engineer Surveyor to Lloyd's Register of Shipping.

LOYD'S REGISTER OF SHIPPING

REPORT OF THE

SHIPPING

26.4
2.5
28.9

It is submitted that this
passenger ship has
a cargo of goods &
Lloyd's record
2/9/78



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Lloyd's Register
Foundation