

216252un

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Recd 4/9/78

No. of Hull of Vessel.

Description *Comp^d ~~Iron~~ ^{Steel} S. A. ~~Spa~~ Cond^g*
 Made by *Messrs Jack & Hay*
 When *1878* At *Liverpool*
 Diameter of cylinder *19 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~~ *18ft*
 Pitch of screw *24ft*
 No. of blades, *4* Total surface *95ft*
 No. of bilge pumps *2* and sizes *4 1/2*
 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 1/2*
 What gauges are there attached to the engines and boilers ... *1 Pressure in each stoke hold 1 - - - 1 vac^{um} & one Comp^d in E.R.*
 Description and size of Donkey Pumps ... *1 of 5" plunger Double acting*
 Where do they pump from ... *Sea, bilges, Cond^{er} 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 *Cyl^{ind} ~~Iron~~ ^{Steel} Subular*
 Made by *Messrs Jack & Hay*
 When *1878* At *Liverpool*
 Working pressure *80lbs.*
 Tested by hydraulic pressure to *160*, Date *27th May 1878*
 Description of super-heating apparatus ... *Not any.*
 Can each boiler be worked separately *Yes*

Can the ~~super-heating~~ ^{Steam chest} be shut off and the boilers worked separately *No*
 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 *Cyl^{ind} ~~Iron~~ ^{Steel} 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 *18ft*

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 level*
 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*

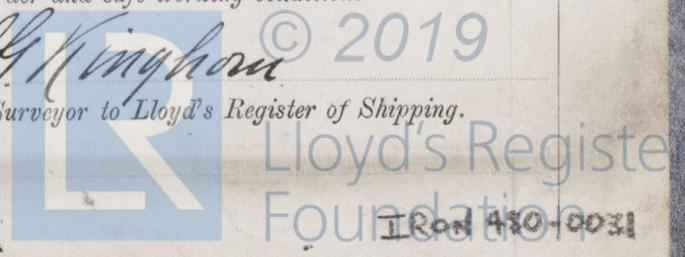
What pipes are carried through the bunkers *Not any*
 How are they protected *---*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *at this time*
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes*
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Yes*

J. Messrs 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 *J. F. L.*
 (Travelling Expenses, if any, £ *---*) *3/9/78*

J. F. L. Engineer Surveyor to Lloyd's Register of Shipping.



LOYD'S REGISTER OF BIRTHS AND DEATHS

26.4
2.5
28.9

It is submitted that this
particular entry should have
a certificate granted &
Lloyd's records
L.M. 2/19/78



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