

18593. Iron.
LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 11/6/77

No. 202
 Port Hamburg
 Report (if any) on Hull of Vessel.

Description *Compound direct acting inverted cyls*
 Made by *Blair & Co*
 When *1873* At *Hartlepool*
 Diameter of cylinder *29 1/2" & 59"* Length of stroke *3'-0"*
 No. of revolutions per minute *60*
 Point of cut off *half stroke*
 Diameter of screw shaft *9 1/2"*
 Diameter of crank shaft journals *9 3/4"*
 Diameter of screw, or of paddle wheel *13'-6"*
 Pitch of screw *14'-0"*
 No. of blades, *4* Total surface _____
 No. of bilge pumps *2* and sizes *3 1/2" dia x 20 1/2" 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 *3 1/2" dia x 20 1/2" stroke*
 What gauges are there attached to the engines and boilers ... *Gable's make*
 Description and size of Donkey Pumps ... *Steam Cyl. dia 11" x 9 1/2" stroke*
double act pump 8 1/2" dia x 9 1/2" stroke
 Where do they pump from ... *from each compartment & from tanks.*
 No. of bilge injections *1* and sizes *5" dia*
 Are they connected to air, or circulating pumps *to latter*
 Is there a hand pump in the engine room *donkey can be worked by hand?*
 Can it be worked by the main engines *~*
 Is there a deck hose of sufficient length to reach to any part of the vessel *yes*

MAIN BOILERS.

Number *2* Description *Cyl. tubular*
 Made by *Blair & Co*
 When *1873* At *Hartlepool*
 Working pressure *65 lbs*
 Tested by hydraulic pressure to *130 lbs*, Date *1873*
 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 *~*
 Description and area of safety valves on each boiler ... *(Admission valves) 2 Spring loaded valves each 2 9/16" dia*
total area: 10.30 sq. inch
 No. of square feet of fire-grate surface in each boiler *37.5 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. *yes*

DONKEY BOILER.

Description *vertical cyl. uptake through steam space, 3 shallow tubes*
 Where fixed *fore stoke hole*
 Working pressure *30 lbs*

Tested by hydraulic pressure to *60 lbs*, Date *1873*
 Description and area of safety valves *direct loaded, area 5.9 sq"*
 No. of square feet of fire grate *12.36 sq"*

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 ... *rare valves & common cocks*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *no*
 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 *1st June 1877*
 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*

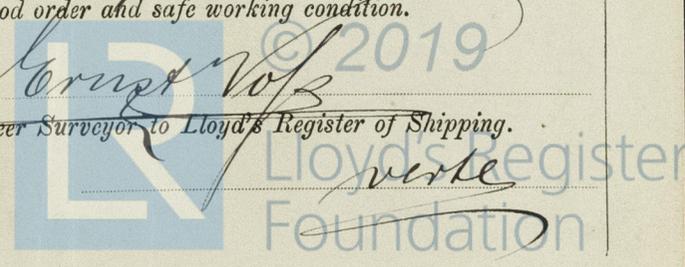
Manufacturer.

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 "*Luxor*" owned by the "*Kosmos*" Steam Navigation Co of the Port of *Hamburg* of *821* Tons Register, and *130* Registered Horse Power, and that they have been carefully inspected and examined by me at *Hamburg* and found to be at this date, viz., *6th June* 18 *77* in good order and safe working condition.

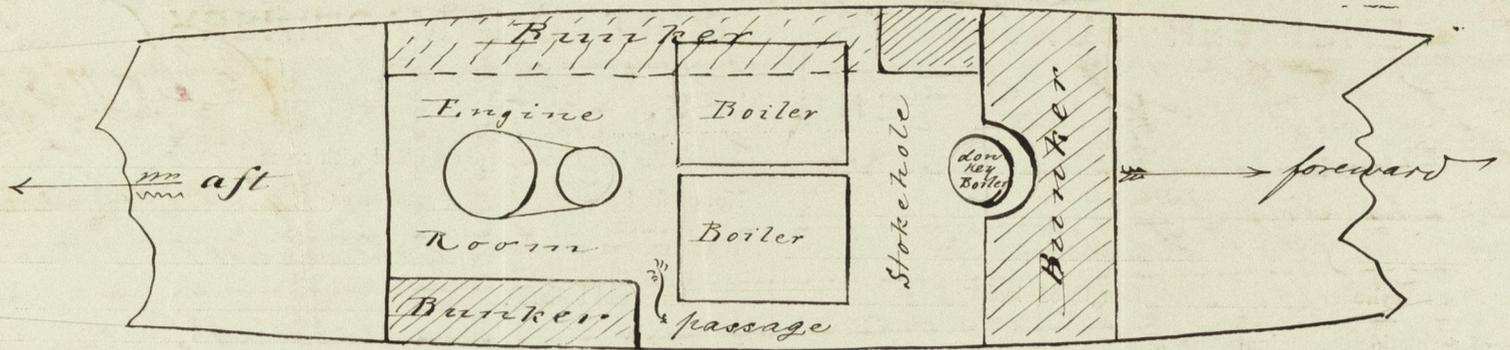
Amount of Fee for Survey £ *6-0-0*

(Travelling Expenses, if any, £ _____)

Ernst Vofz
 Engineer Surveyor to Lloyd's Register of Shipping.



18593 Iron



Arrangement of Bunkers.



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