

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

*Rec 11/6/77*

Description *Compound direct acting inverted cyls*  
 Made by *Blair & Co*  
 When *1873* At *Hartlepool*  
 Diameter of cylinder *29 1/2" x 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 1/4" dia x 20 1/2" stroke*  
 What gauges are there attached to the engines and boilers ... *Gablers make*  
 Description and size of *Steam cyl. dia 11" x 9 1/2" stroke*  
 Donkey Pumps ... *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 *2 (Adams patent) spring loaded valves each 2 9/16" dia*  
 safety valves on each boiler *total area: 10.30 sq in*  
 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. up & down 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 *1 direct loaded, area 5.9 sq in*  
 No. of square feet of fire grate *12.36 sq 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 ... *several 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, £ *—*)

(1000/31/7/76.)

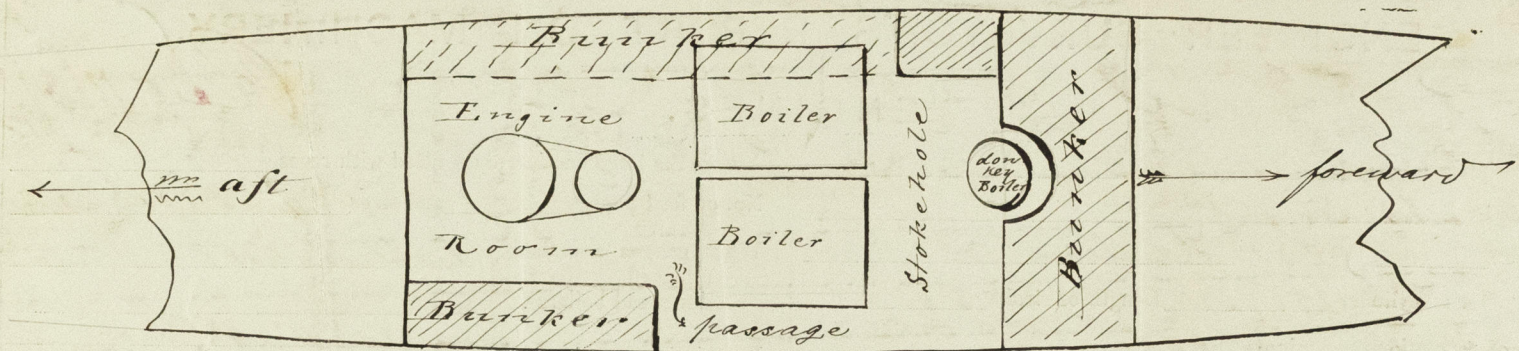
Engineer Surveyor to Lloyd's Register of Shipping.

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18593 Iran



Arrangement of Bunkers.