

22707 Iron

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Ru 14/2/99

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

Description *Inverted Compound Surface Cond.*  
 Made by *London & Glasgow Engineering Co.*  
 When *18 74* At *Glasgow*  
 Diameter of cylinders *2:31 x 54* Length of stroke *33*  
 No. of revolutions per minute *55*  
 Point of cut off *5/8 of stroke*  
 Diameter of screw shaft *9 1/2*  
 Diameter of crank shaft journals *9 1/2*  
 Diameter of screw, or of paddle wheel *15 0*  
 Pitch of screw *19 0*  
 No. of blades, *4* Total surface *47.5*  
 No. of bilge pumps *2* and sizes *dia: 6 stroke 6 3/4*  
 Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*  
 No. of feed pumps *2* and sizes *dia 5 stroke 9 1/2*  
 What gauges are there attached to the engines and boilers ... } *3 Steam gauge, 1 Vacuum gauge, 1 Compound gauge.*  
 Description and size of Donkey Pumps ... } *2 Vertical, 9 dia, 9 stroke, 5 pump, 10 dia, 10 stroke, 6 pump.*  
 Where do they pump from ..... } *From Bilge & from sea.*  
 No. of bilge injections *one* and sizes *5 pipe*  
 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 *Yes*  
 Is there a deck hose of sufficient length to reach to any part of the vessel } *Yes*

### MAIN BOILERS.

Number *Two* Description *Circular tubular*  
 Made by *Messrs Ch. J. Palmer & Co.*  
 When *February 18 74* At *Hull*  
 Working pressure *70 lb per sq. inch.*  
 Tested by hydraulic pressure to *140 lb.*, Date *26/11/98.*  
 Description of super-heating apparatus .....  
 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 ..... } *2 Spring Valves, seaton & Cameron, 3 1/8*  
 No. of square feet of fire-grate surface in each boiler } *49, 5*  
 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 circular*  
 Where fixed *In Storehold*  
 Working pressure *60 lb per sq. inch.*

Tested by hydraulic pressure to *120 lb.*, Date *4/1/99*  
 Description and area of safety valves *2 Spring valves, S. & C. 1 1/4*  
 No. of square feet of fire grate *28, 5*

### 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*  
 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 } *13<sup>th</sup> Dec. 1878*  
 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 *Lady Ly cett* owned by *Mercantile Steam Shipping Co Ltd.* of the Port of *London* of *1199* Tons Register, and *150* Registered Horse Power, and that they have been carefully inspected and examined by me at *New Holland & Hull* and found to be at this date, viz., *15<sup>th</sup> February* 18 *74* in good order and safe working condition.

Amount of Fee for Survey ... £ : :

(Travelling Expenses, if any, £.....)

*A. Heydel*  
 Engineer Surveyor to Lloyd's Register of Shipping.