

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

*Rev 14/10/78*

Description *Inverted, Compound, Surface, Condensing*  
 Made by *Messrs Hawks Crawshaw & Sons*  
 When *Sept* 1878 At *Gateshead*  
 Diameter of cylinder *32 x 61* Length of stroke *36*  
 No. of revolutions per minute *about 65 Revs*  
 Point of cut off *9 1/16*  
 Diameter of screw shaft *10 3/4*  
 Diameter of crank shaft journals *10 3/4*  
 Diameter of screw of paddle wheel *14 ft 6 in*  
 Pitch of screw *15 ft 6 in to 17 ft 6 in*  
 No. of blades *4* Total surface *58 sq ft*  
 No. of bilge pumps *2* and sizes *4" x 18"*  
 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" x 18"*  
 What gauges are there attached to the engines and boilers ... *2 Steam, 1 Vacuum, Engine Room, 1 Steam in Stokehole*  
 Description and size of Donkey Pumps ... *Ballast 10" x 10" Acting Boiler 3 1/2" x 6" Aft Tank, Main Tank*  
 Where do they pump from ... *Engine space, Sea, Wells in tunnels, Aft, Main, Fore holds,*  
 No. of bilge injections *1* and sizes *6"*  
 Are they connected to air, or circulating pumps *air*  
 Is there a hand pump in the engine room *No*  
 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*  
 Made by *Messrs Hawks Crawshaw & Sons*  
 When *Sept* 1878 At *Gateshead*  
 Working pressure *70 lbs*  
 Tested by hydraulic pressure to *150 lbs*, Date *1.8.78*  
 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 *No super heater*  
 Description and area of safety valves on each boiler ... *Adams Spring valve 25.1 sq in area*  
 No. of square feet of fire-grate surface in each boiler *40 sq ft*  
 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 *Upright, Cylindrical*  
 Where fixed *Stokehole*  
 Working pressure *50 lbs*

Tested by hydraulic pressure to *100 lbs*, Date *11.7.78*  
 Description and area of safety valves *1 dead weight 3 3/4" = 11" area*  
 No. of square feet of fire grate *19 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 ... *3 Lewis valves & 3 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 *air & cin pumps, above, Bilge pumps below*  
 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 *new*  
 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*

*Hawks Crawshaw & Sons* Manufacturer.  
*per Mr W. R. House*

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 *Japanese* owned by *Mr J. Sutton* of the Port of *London* of *1203.00* Tons Register, and *170* Registered Horse Power, and that they have been carefully inspected and examined by me at *Newcastle* and found to be at this date, viz., *20 September* 1878 in good order and safe working condition.

Amount of Fee for Survey ... £ *8* : *10* : *0*  
 (Travelling Expenses, if any, £ *0* : *5* : *0*)

*Red by me J. Brockat 12/10/78*

*John Brockat*  
 Engineer Surveyor to Lloyd's Register of Shipping.  
*North Shields.*

IRON 480-0382



The Machinery and Boiler of the  
essel. are fitted in accordance  
with the Committee's requirements  
submitted that she is  
eligible to have Lloyd's  
M.C. and a machinery  
certificate Jan. 28-1878

1878

MO

15-10-78



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