

20432 Jun

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Rev 21/3/18

Description *Vertical Compound*  
Made by *John Shaw & Co*  
When *March 1878* At *Low Walker*  
Diameter of cylinders *32 x 62* Length of stroke *42*  
No. of revolutions per minute *60*  
Point of cut off *7/8*  
Diameter of screw shaft *10 1/2*  
Diameter of crank shaft journals *10 3/4*  
Diameter of screw, ~~or of paddle wheel~~ *16 ft*  
Pitch of screw *16 to 19 ft*  
No. of blades, *14* Total surface *58 1/2 ft*  
No. of bilge pumps *2* and sizes *4 1/2 x 2 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 x 2 1/2*  
What gauges are there attached to the engines and boilers ... *1 Steam & 1 Coas in Engine Room. 2 Steam in Stokehole*  
Description and size of Donkey Pumps ... *One 10" dia x 9" stroke 8" pump*  
*4 1/2 x 2 1/2 (Donkey boiler)*  
Where do they pump from ... *Main Hold. Engine Room*  
*Well in aft Hold. Well in tunnel.*  
No. of bilge injections *one* and sizes *3 1/2" & 2"*  
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 *Donkey can be worked*  
Is there a deck hose of sufficient length to reach to any part of the vessel *yes by hand.*

### MAIN BOILERS.

Number *Two* Description *Cylindrical*  
Made by *John Shaw & Co*  
When *March 1878* At *Low Walker*  
Working pressure *75 lbs*  
Tested by hydraulic pressure to *150 lbs*, Date *23/1/78*  
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 superheater*  
Description and area of safety valves on each boiler ... *2 Spring valves 4 1/2" dia*  
*Lifts 75 lbs. Area 5 1/2 sq in, closes 7 1/2*  
*2 1/2 x 1 1/2 inches*  
No. of square feet of fire-grate surface in each boiler *58*  
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*  
Where fixed *Stokehole*  
Working pressure *45 lbs*

Tested by hydraulic pressure to *90 lbs*, Date *19/1/78*  
Description and area of safety valves *1 Spring 3 1/2" = 8 1/2 sq in*  
No. of square feet of fire grate *17*

### 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 ... *1 Kingston & 4 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 *now*  
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*

*Heptone Engine Works* Manufacturer.  
*(Newcastle)*

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (or ~~Race~~) Steam Vessel *Compton* owned by *Mr J. D. Milburn*  
of the Port of *London* of *1106.4* Tons Register, and *200* Registered Horse Power,  
and that they have been carefully inspected and examined by me at *Low Walker, Newcastle-on-Tyne.*  
and found to be at this date, viz., *17<sup>th</sup> March* 18*78* in good order and safe working condition.

Amount of Fee for Survey ... £ *10 : 0 : 0* paid by *Subs*  
(Travelling Expenses, if any, £ *0 : 5 : 0*) me *F. Young*

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