

# Report No. 21380

## LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

### ENGINEER SURVEYOR'S REPORT ON MACHINERY.

#### ENGINES.

Description *Comp<sup>d</sup> - Inst<sup>d</sup> D. A. Spec Cond<sup>r</sup>*  
 Made by *Messrs Forester & Co.*  
 When *1878* At *Liverpool*  
 Diameter of cylinder *2 of 28"* Length of stroke *4 1/2 6"*  
 No. of revolutions per minute *60*  
 Point of cut off *Variable*  
 Diameter of screw shaft *15"*  
 Diameter of crank shaft journals *15"*  
 Diameter of screw, or of paddle wheel *20 0"*  
 Pitch of screw *26 0"*  
 No. of blades, *4* Total surface *70 ft.*  
 No. of bilge pumps *2* and sizes *4 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"*  
 What gauges are there attached to the engines and boilers ... *1 Press gauge to each boiler in S. Hold*  
*1 Press 1 Bar<sup>o</sup> & 2 Comp<sup>d</sup> in E. R.*  
 Description and size of Donkey Pumps ... *1 Acting 6" plunger 10" stroke*  
 Where do they pump from ... *Sea. Bilges. Condenser to Boilers*  
*1 1/2 and overboard.*  
 No. of bilge injections *2* and sizes *6"*  
 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 *No*  
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes.*

#### MAIN BOILERS.

Number *3* Description *Cyl<sup>d</sup> R. Subular*  
 Made by *Messrs. Forester & Co.*  
 When *1878* At *Liverpool*  
 Working pressure *80 lbs.*  
 Tested by hydraulic pressure to *160 lbs.* Date *19<sup>th</sup> Jan'y.*  
 Description of *Steam chest* *Cyl<sup>d</sup> horizontal*  
*apparatus*  
 Can each boiler be worked separately *Yes*

Can the *Steam chest* be shut off and the boilers worked separately *No*  
 Description and area of safety valves on each boiler ... *2 of Spring = 25.9" area each*  
 No. of square feet of fire-grate surface in each boiler *108 ft.*  
*3 24*  
 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 *Cyl<sup>d</sup> R. Subular*  
 Where fixed *In recess in stokehold*  
 Working pressure *40 lbs.*

Tested by hydraulic pressure to *80 lbs.* Date *11<sup>th</sup> May*  
 Description and area of safety valves *1 Weight = 15.9" area*  
 No. of square feet of fire grate *28 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 ... *Common Cocks & Chests.*  
 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 *Level*  
 Are they each fitted with a discharge valve on the plating of the vessel *Yes*

What pipes are carried through the bunkers *Steam pipes*  
 How are they protected *Iron casing*  
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *At this time*  
 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*

*Messrs. Forester & Co.* 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 *"British Empire"* owned by *The British Ship Owners Coy Limited* of the Port of *Liverpool* of *2152.69* Tons Register, and *300* Registered Horse Power, and that they have been carefully inspected and examined by me at *Liverpool & Belfast.* and found to be at this date, viz., *8<sup>th</sup> August* 1878. in good order and safe working condition.

Amount of Fee for Survey ... £ *15 0 0* Received  
 (Travelling Expenses, if any, £ *6 10 0*) *3 9/8/78 J.W.S.*

*J. G. Pillingham*  
 Engineer Surveyor to Lloyd's Register of Shipping.



The machinery of the vessel is fitted  
in accordance with the Committee  
regulations submitted that she  
is eligible to have Lloyd's  
M.P. and is ready  
Certificate from 8 Aug.

1878

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