

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Description *Compound Inverted Direct Acting*  
 Made by *Messrs. The London & Glasgow Engineering Co. Ltd.*  
 When *1893* At *Glasgow*  
 Diameter of cylinder *14 1/2" x 82"* Length of stroke *45"*  
 No. of revolutions per minute *51*  
 Point of cut off *Variable*  
 Diameter of screw shaft *1 1/2"*  
 Diameter of crank shaft journals *1 1/4"*  
 Diameter of screw, *or of paddle wheel* *1 1/2"*  
 Pitch of screw *not ascertained*  
 No. of blades, *four* Total surface *—*  
 No. of bilge pumps *two* and sizes *4 3/4" x 12" stroke*  
 Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*  
 No. of feed pumps *two* and sizes *4" dia x 14" stroke*  
 What gauges are there attached to the engines and boilers ... *Three Steam, one Vacuum & one Compound.*  
 Description and size of Donkey Pumps ... *Double acting 5" x 10" stroke*  
 Where do they pump from ... *From the sea and bridge.*  
 No. of bilge injections *one* 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 *Yes*  
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

### MAIN BOILERS.

Number *two* Description *Round Horizontal fire from bottom*  
 Made by *The London & Glasgow Co. Ltd.*  
 When *1894* At *Glasgow*  
 Working pressure *40 lbs*  
 Tested by hydraulic pressure to *—*, Date *—*  
 Description of super-heating apparatus *Round longitudinal enclosed in jacket, (one to each boiler)*  
 Can each boiler be worked separately *Yes*

Can the super-heater be shut off and the boilers worked separately *no*  
 Description and area of safety valves on each boiler *two Lever & Weight each 30.67" area.*  
 No. of square feet of fire-grate surface in each boiler *110 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 *Round Vertical*  
 Where fixed *In stoke hold at middle line*  
 Working pressure *42 lbs*

Tested by hydraulic pressure to *not ascertained* Date *—*  
 Description and area of safety valves *one Direct Weight 11.04" area*  
 No. of square feet of fire grate *19.6 ft*

### PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *All except Donkey Suction which is fitted on deck*  
 Are they Kingston valves or common cocks ... *Screw down valves & cocks*  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *Yes. the blow off cocks are fitted under wing casings*  
 Are the discharge pipes above or below the deep water line *Yes*  
 Are they each fitted with a discharge valve on the plating of the vessel *Yes*

What pipes are carried through the bunkers *Bilge pipes to fore & aft*  
 How are they protected *By strong wood casing*  
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *May 26<sup>th</sup> 1894*  
 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 Steel) Screw (or Paddle) Steam Vessel *"State of Virginia"* owned by *The State Steam Ship Co. (Limited)* of the Port of *Glasgow* of *1594* Tons Register, and *400* Registered Horse Power, and that they have been carefully inspected and examined by me at *Glasgow* and found to be at this date, viz., *May 29<sup>th</sup> 1894* in good order and safe working condition.

Amount of Fee for Survey ... £ : :

(Travelling Expenses, if any, £ )

(1000/31/7/76.)

James Morrison  
 Engineer Surveyor to Lloyd's Register of Shipping.

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