

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Rev 16/11/76

Description *Compound Inverted Direct acting*  
 Made by *Thos. W. Wigham & Co.*  
 When *1876* At *Glasgow*  
 Diameter of cylinder *15 1/4 x 30"* Length of stroke *18"*  
 No. of revolutions per minute *120*  
 Point of cut off *2/3<sup>rd</sup> of stroke*  
 Diameter of screw shaft *5*  
 Diameter of crank shaft journals *5*  
 Diameter of screw, *or propeller shaft* *6 1/2*  
 Pitch of screw *11 ft*  
 No. of blades, *Three* Total surface *not ascertained*  
 No. of bilge pumps *One* and sizes *3" dia x 9" stroke*  
 Do they pump from each compartment *from the fore and aft*

Are all the bilge suction pipes fitted with roses *Yes*  
 No. of feed pumps *One* and sizes *3" dia x 9" stroke*  
 What gauges are there attached to the engines and boilers ... *One steam, one vacuum & one compound.*  
 Description and size of Donkey Pumps ... *Double acting 4" dia x 8" stroke*  
 Where do they pump from ... *from the sea & engine room bilge*  
 No. of bilge injections *One* and sizes *2 1/2"*  
 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 *One* Description *Round Horizontal*  
 Made by *Thos. W. Wigham & Co.*  
 When *1876* At *Glasgow*  
 Working pressure *45 lbs*  
 Tested by hydraulic pressure to *150 lbs*, Date \_\_\_\_\_  
 Description of super-heating apparatus *None*  
 Can each boiler be worked separately \_\_\_\_\_

Can the super-heater be shut off and the boilers worked separately \_\_\_\_\_  
 Description and area of safety valves on each boiler *One Lever Weight 15-9 Area*  
 No. of square feet of fire-grate surface in each boiler *33 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 *No Donkey Boiler*  
 Where fixed \_\_\_\_\_  
 Working pressure \_\_\_\_\_

Tested by hydraulic pressure to \_\_\_\_\_, Date \_\_\_\_\_  
 Description and area of safety valves \_\_\_\_\_  
 No. of square feet of fire grate \_\_\_\_\_

### PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *All except common injection cock which is fitted in casing*  
 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 *The Ash cooling cock is under plate. the other are all in engine room*  
 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 *No, the Air & Circulating pumps discharge through the pipe which is carried above and deck*  
*Thos. W. Wigham & Co. Glasgow*

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 *On ship previous to being launched*  
 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 *No tunnel, and the door is fitted on bulkhead with covers*

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (or Steam) Vessel *"Governor Albuquerque"* owned by *Laurel Gargery* of the Port of *Liverpool* of *85* Tons Register, and *40* Registered Horse Power, and that they have been carefully inspected and examined by me at *Glasgow* and found to be at this date, viz., *November 15<sup>th</sup> 1876* in good order and safe working condition.

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