

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

16575 Jun

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Rev 27/6/76

No. Report (if any) on Hull of Vessel. Port

Description *Vertical, Compound, Surface Cond* Are all the bilge suction pipes fitted with roses *Yes*  
 Made by *Messrs Gourlay Brothers & Coy* No. of feed pumps *one* and sizes *6" Dia 9" Stroke D.S.*  
 When *June 1876* At *Dundee* What gauges are there *Two Water & one Pressure*  
 Diameter of cylinder *42 1/2" 70"* Length of stroke *3" 0"* attached to the en- *Gauges on each Boiler*  
 No. of revolutions per minute *70* gines and boilers ... *one each Pressure, Compound*  
 Point of cut off *9/16* and Vacuum on Engines  
 Diameter of screw shaft *11"* Description and size of *one Vertical direct acting 6" Dia*  
 Diameter of crank shaft journals *12 1/4"* Donkey Pumps ... *Pump 8" Stroke for Tanks*  
 Diameter of screw, or of paddle wheel *13 1/4"* Where do they pump *one Do so for Boilers 3 1/2" Pump*  
 Pitch of screw *19 feet* from ..... *Holds, Tanks, & Sea*  
 No. of blades, *Four* Total surface *64.5 Sq feet* No. of bilge injections *one* and sizes *3" Bore*  
 No. of bilge pumps *one* and sizes *7 1/4" Dia 9" Stroke* Are they connected to air, or circulating pumps *Circulating*  
 Do they pump from each compartment *Yes* *double acting* Is there a hand pump in the engine room *Yes*  
 Is there a deck hose of sufficient length } *Yes*  
 to reach to any part of the vessel } *No*

### MAIN BOILERS.

Number *Two* Description *Circular Tubular* Can the super-heater be shut off and } *None*  
 Made by *Messrs Gourlay Bros & Coy* the boilers worked separately }  
 When *June 1876* At *Dundee* Description and area of *Adam's Spring (Talent)*  
 Working pressure *65 lbs* safety valves on each } *Two on each Boiler*  
 Tested by hydraulic pressure to *130 lbs*, Date *22 May/76* boiler ..... *28.36 sq inches each*  
 Description of super-heating } *Horizontal Domb on*  
 apparatus ..... } *each Boiler* No. of square feet of fire-grate } *54 Sq feet in each*  
 Can each boiler be worked separately *Yes* surface in each boiler }  
 Are there separate blow off and } *Yes*  
 brine cocks on each boiler, }  
 independent of those }  
 on the vessel's skin }  
 Are all pipes, cocks, roses, and pumps in } *Yes*  
 connection with the machinery ac- }  
 cessible at all times..... } *Yes*

### DONKEY BOILER.

Description *Vertical, Circular 10 1/2" 14 x 5 1/2"* Tested by hydraulic pressure to *100 lbs*, Date *22 May/76*  
 Where fixed *Stokehold* Description and area of safety valves *Two Direct Load*  
 Working pressure *50 lbs* No. of square feet of fire grate *7.6 ins area*  
*13.25 sq feet*

### PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea } *Yes*  
 direct on the skin of the ship }  
 Are they Kingston valves } *Cocks & Valves*  
 or common cocks ... }  
 Are they fixed sufficiently high on } *Yes with the*  
 the ship's side to be seen } *exception of one cock*  
 without lifting the stoke hold } *for stokehold water service*  
 plates ..... } *above*  
 Are the discharge pipes above or } *Yes*  
 below the deep water line }  
 Are they each fitted with a discharge } *Yes*  
 valve on the plating of the vessel }  
 What pipes are carried through the bunkers *None*  
 How are they protected .....  
 When were the stern tube, } *Before Launched*  
 propeller, screw shaft, }  
 and all connections }  
 examined in dry dock }  
 Are the pipes, cocks, and valves } *Yes*  
 arranged so as to prevent }  
 an unintentional connection }  
 between the sea and the bilge }  
 Is the screw shaft-tunnel water } *Yes*  
 tight and fitted with a }  
 sluice door on bulkhead }

*Gourlay Brothers* 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 *Penguin* owned by *General Steam Navigation Coy*  
 of the Port of *London* of *905.87* <sup>Gross</sup> Tons Register, and *220* Registered Horse Power,  
 and that they have been carefully inspected and examined by me at *Dundee*  
 and found to be at this date, viz., *21<sup>st</sup> June* 1876 in good order and safe working condition.

Fees £ 11. 0. 0

*John Sturrock*  
Engineer Surveyor to Lloyd's Register of Shipping.

*MC*

