

22240 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Recd 14/8/78

Compound
 Description *Int. Cyl. Surface Condensing*
 Made by *Messrs Gourlay Bros & Coy*
 When *May* 1878 At *Dundee*
 Diameter of cylinder *36 1/2 x 60* Length of stroke *30*
 No. of revolutions per minute *90*
 Point of cut off *9/16ths*
 Diameter of screw shaft *10 1/4*
 Diameter of crank shaft journals *11*
 Diameter of screw, ~~or of paddle wheel~~ *12 1/2*
 Pitch of screw *15 1/2*
 No. of blades, *4* Total surface *68 feet*
 No. of bilge pumps *one* and sizes *6 1/2 Dia 8" Stroke*
 Do they pump from each compartment *yes* *Double Acting*

Are all the bilge suction pipes fitted with roses *yes*
 No. of feed pumps *one* and sizes *6 1/2 Dia 8" Stroke D.A.*
 What gauges are there attached to the engines and boilers ... *Two water each boiler two pressure in stoke hold. one each on engines pressure. Vacuum & Compound*
 Description and size of Donkey Pumps ... *one Vertical 6" Dia Cyl 7" Stroke 3 1/2" Dia double acting pump*
 Where do they pump from ... *See. Hotwell. Bilge. to boilers through shipside and on Deck*
 No. of bilge injections *None* and sizes - - -
 Are they connected to air, or circulating pumps - - -
 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 *Two* Description *Circular Tubular*
 Made by *Messrs Gourlay Bros & Coy*
 When *May* 1878 At *Dundee*
 Working pressure *66 lbs*
 Tested by hydraulic pressure to *132 lbs*, Date *4.5.78*
 Description of super-heating apparatus *Horizontal Drombs*
 Can each boiler be worked separately *yes*

Can the super-heater be shut off and the boilers worked separately } - - -
 Description and area of safety valves on each boiler ... *Two Adams Patent Spring for each boiler 25.12 area*
 No. of square feet of fire-grate surface in each boiler } *47.5 feet*
 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 4.8 x 10.6 x 4 tubes*
 Where fixed *Stoke hold*
 Working pressure *50 lbs*

Tested by hydraulic pressure to *100*, Date *4.5.78*
 Description and area of safety valves *two direct 6.28 area*
 No. of square feet of fire grate *12 feet*

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 ... } *Cocks & valves*
 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 } *yes*
 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*

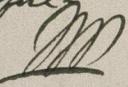
Claude Brothers & Co Manufacturer.

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 "*S. T. O. R. K.*" owned by *General Steam Navigation Coy* of the Port of *London* of *598* Tons Register, and *165* Registered Horse Power, and that they have been carefully inspected and examined by me at *Dundee* and found to be at this date, viz., *8th June* 1878 in good order and safe working condition.

Amount of Fee for Survey ... £ *5.10.0*
 (Travelling Expenses, if any, £ *Red J. H.*)

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

The Machinery and Boilers of this vessel
were inspected by the Engineer Surgeon at
Dunbar while they were building they
are fitted in accordance with the
Rules submitted that she is
eligible to have the notification
Lloyd's M. C. and a Machinery
Certificate it was not
intended to close this
vessel when she
left Dunbar - in
this report would
have been sent in
before


15. 8. 78

(No. 22240)



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