

No. 241

J. J. Wolviston

2497 2. 1899

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 6/11/79

Description *Compound Inverted Surface Condensing*
 Made by *J. Richardson & Sons*
 When *Nov 18 1899* At *Hartlepool*
 Diameter of cylinder *33 & 61* Length of stroke *33"*
 No. of revolutions per minute *About 65*
 Point of cut off *1/2 stroke*
 Diameter of screw shaft *10"*
 Diameter of crank shaft journals *10 1/4* *Tunnel shaft 9 1/2*
 Diameter of screw, or of paddle wheel *15.0"*
 Pitch of screw *16.0"*
 No. of blades, *4* Total surface *63.35 sq feet*
 No. of bilge pumps *2* and sizes *3 3/4 x 2 1/2 dia. Single Acting*
 Do they pump from each compartment *From after well, engine room, fore peak*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *2* and sizes *3 3/4 x 2 1/2 dia. Single Acting*
 What gauges are there attached to the engines and boilers ... *3 steam*
 Description and size of Donkey Pumps ... *No 1 pump 7 dia x 9 stroke Double Acting*
No 2 " 3 1/2 " x 7 " "
No 1 pumpo from engine room & ballast tanks. No 2 from sea, hot well,
 Where do they pump *engine room, fore peak & after well*
 No. of bilge injections *1* and sizes *1 1/2 dia*
 Are they connected to air, or circulating pumps *Circulating pump*
 Is there a hand pump in the engine room *Donkey work by hand*
 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 *Cylindrical Multitubular*
 Made by *J. Richardson & Sons*
 When *Oct 18 1899* At *Hartlepool*
 Working pressure *85 lbs per sq. inch*
 Tested by hydraulic pressure to *170 lbs*, Date *14.10.99*
Testing Certificate 268
 Description of super-heating apparatus *None*
 Can each boiler be worked separately *Yes*

Can the super-heater be shut off and the boilers worked separately *No superheater*
 Description and area of safety valves on each boiler *Two spring on each boiler*
 Combined area of two valves *30 sq in*
 No. of square feet of fire-grate surface in each boiler *40 sq 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. *All except suction pipes & hoses in tanks when ship is loaded*

Description *Two DONKEY BOILERS*
 Made by *Wm Gray & Co. H.H.P.L*
 Tested by hydraulic pressure to *130 lbs*, Date *15.10.99*
Testing Certificate 269
 Description and area of safety valves *1 dia 2 1/4 dia = 1.95 sq area*
 No. of square feet of fire grate *11.19 sq feet*

Where fixed *In stokehole*
 Working pressure *65 lbs*

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 ... *Stop valves and cocks*
 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 *Below*
 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 *None*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *New*
 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 *Tunnel not watertight*
Sluice door fitted

J. Richardson & Sons Manufacturers of Engines, Main Boilers only
J. Richardson

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 *Wolviston* owned by *West Hartlepool Ste. Navigation Coy* of the Port of *West Hartlepool* of *1458.28* Tons Register, and *150* Registered Horse Power, and that they have been carefully inspected and examined by me at *Hartlepool & West Hartlepool* and found to be at this date, viz *11th November* 18 *99* in good order and safe working condition.

Donkey Boiler Survey Fee. *£ 2 : 4 : 6* received by me.
 Amount of Fee for Survey ... *£ 4 : 10 : 0*
 Certificate *0 : 3 : 0* 5.11.1899

James H. ...
 Engineer Surveyor to Lloyd's Register of Shipping.
West Hartlepool

Report (if any) on Hull of Vessel. Port West Hartlepool, No. 429.

IRON 488-0472

S. 8-1000-22, 6/78



The Machinery of this vessel has been built and
fitted in accordance with the rules submitted
that she is eligible to have Lloyd's M.C. and
a machinery certificate from 4th Novr 1879

MD 6.11.79

