

No. 2441.

J. J. Wolviston

24972.00

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Compound Inverted Surface Condensing*
 Made by *J. Richardson & Sons*
 When *Nov 18 49* 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 *63.3 sq feet*
 No. of bilge pumps *2* and sizes *3 3/4 x 21 1/2" 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 21 1/2" Single Acting*
 What gauges are there attached to the engines and boilers ... *3 steam 1 Vacuum*
 Description and size of Donkey Pumps ... *No 1 pump 7 1/2" x 9 1/2" Double Acting No 2 " 3 1/2" x 1/2" " "*
 Where do they pump *from tanks. No 2 from sea, hot well, 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 any part of the vessel *Yes*

MAIN BOILERS.

Number *Two* Description *Cylindrical Multitubular*
 Made by *J. Richardson & Sons*
 When *Oct 18 49* At *Hartlepool*
 Working pressure *85 lbs per sq. inch*
 Tested by hydraulic pressure to *170 lbs*, Date *14.10.49*
 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 & roses in tanks when ship is loaded*

Two DONKEY BOILERS
 Description *Vertical Water tubes in furnaces*
 Where fixed *In stokehole*
 Working pressure *65 lbs*

Made by *Wm Gray & Co. H.N.P.L*
 Tested by hydraulic pressure to *130 lbs*, Date *15.10.49*
 Description and area of safety valves *1 duplex 2 1/4" dia = 1.95 sq area 1 horizontal 2 1/4" " "*
 No. of square feet of fire grate *14.19 sq 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 ... *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 *New*
 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 *Tunnel not watertight Sluice door fitted*

J. Richardson & Sons Manufacturers of Engines & Marine 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 *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 *14 November* 18 *49* in good order and safe working condition.

Donkey Boiler Survey Fee *£ 2 : 4 : 6* received by me, *James H. H. H.*
 Amount of Fee for Survey ... *£ 4 : 10 : 0*
 Certificate *0 : 3 : 0*
 Travelling Expenses, if any, £ *0*

Engineer Surveyor to Lloyd's Register of Shipping.

West Hartlepool

Report (if any) on Hull of Vessel. Port West Hartlepool, No. 449.

IRON 488-0472

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 given 4th Novr 1879

W. 6.11.79



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