

182067m

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 8/3/77

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

Description *Compound Inverted*
 Made by *Readhead & Co*
 When *1874* At *South Shields*
 Diameter of cylinder *2 3/2* length of stroke *30"*
 No. of revolutions per minute *60*
 Point of cut off *3/8 of stroke*
 Diameter of screw shaft *4"*
 Diameter of crank shaft journals *8"*
 Diameter of screw, or of paddle wheel *11" 8"*
 Pitch of screw *16" 6"*
 No. of blades, *4* Total surface *38 1/2 sq ft*
 No. of bilge pumps *2* and sizes *19" str. 3" dia.*
 Do they pump from each compartment *Yes.*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *2* and sizes *19" str 3" dia*
 What gauges are there attached to the engines and boilers ... *One Steam gauge and one Vacuum gauge in engine room. One Steam gauge in Boiler room.*
 Description and size of Donkey Pumps ... *Vertical. 10" dia. 10" stroke. plunger 6 1/2" dia*
 Where do they pump from ... *From Bilge, Ballast tank and from sea*
 No. of bilge injections *One* and sizes *4 1/4"*
 Are they connected to air, or circulating pumps *Circulating.*
 Is there a hand pump in the engine room *No, but deck pump.*
 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 *Circular tubular*
 Made by *J. Readhead & Co*
 When *1874* At *South Shields*
 Working pressure *65 lbs per square inch*
 Tested by hydraulic pressure to *130 lbs*, Date *When new*
 Description of super-heating apparatus *Vertical chest*
 Can each boiler be worked separately *No*

Can the super-heater be shut off and the boilers worked separately *Yes*
 Description and area of safety valves on each boiler ... *2 Lever valves 4 1/2" dia 31, 8 sq in*
 No. of square feet of fire-grate surface in each boiler *48 sq 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 *Vertical 10" high. 4" 6" dia*
 Where fixed *In Boiler room*
 Working pressure *40 lbs per square inch*

Tested by hydraulic pressure to *80 lbs*, Date *When new*
 Description and area of safety valves *One Lever valve 3" dia, 106 sq in*
 No. of square feet of fire grate *12, 56 sq ft*

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 ... *Common cocks with guards and valves*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *Not all of them*
 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 *None*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *8 Jan. 15 Jan. 5 Feb. 77*
 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*

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 *Marianne Briggs* owned by *Yorkshire Coal & S.S. Company* of the Port of *Goole* of *396* Tons Register, and *80* Registered Horse Power, and that they have been carefully inspected and examined by me at *Goole and Hull* and found to be at this date, viz., *February 6. 1877* in good order and safe working condition.

A. Keydell
 Engineer Surveyor to Lloyd's Register of Shipping.

