

S. S. "Mary"

22840 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 3/3/19

Port of Hull of Vessel. Report (if any) on Hull of Vessel. Port of Hull of Vessel. Report (if any) on Hull of Vessel.

Description Compound. Inverted Surface Condensing
Made by J. Richardson & Sons
When April 18/91 At Hartlepool
Diameter of cylinder 25" - 48" Length of stroke 33"
No. of revolutions per minute About 65
Point of cut off 1/2 stroke
Diameter of screw shaft 8 1/4"
Diameter of crank shaft journals 8 1/4" Tunnal shaft 3 1/4" dia
Diameter of screw, or of paddle wheel 11.6"
Pitch of screw 15:0
No. of blades, 4 Total surface 34 sq feet
No. of bilge pumps 1 and sizes 3 3/4 x 33 1/2" Single Acting
Do they pump from each compartment From engine room only

Are all the bilge suction pipes fitted with roses Yes
No. of feed pumps 1 and sizes 3 3/4 x 33 1/2" Single Acting
What gauges are there attached to the engines and boilers ... Two steam
Description and size of Donkey Pumps ... One double acting donkey Pump 6 1/2" dia x 10" stroke
Where do they pump from From ballast tanks and engine room
No. of bilge injections 1 and sizes 3 1/2"
Are they connected to air, or circulating pump Circulating pump
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 One Description Cylindrical - Multitubular
Made by J. Richardson & Sons
When January 18/99 At Hartlepool
Working pressure 40 lbs per sq inch
Tested by hydraulic pressure to 140 lbs Date 23/12/98
Description of super-heating apparatus None
Can each boiler be worked separately Only one boiler in ship

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 valves. Combined area 30 sq in
No. of square feet of fire-grate surface in each boiler 444 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. Yes

DONKEY BOILER

Description Vertical. Water tubes in furnaces
Where fixed On deck
Working pressure 66 lbs. Certified Pressure 40 lbs

Made by A. Porter. Stockton
Tested by hydraulic pressure to 140 lbs per sq inch Date 9/9/98
Description and area of safety valves Direct - steam. Combined area 9.25 sq in
No. of square feet of fire grate 17.72 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 Yes
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 January 18/99
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

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 Mary owned by Johnston & Sons of the Port of Montrose of 248 Tons Register, and 96 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., 12th February 1899 in good order and safe working condition.

Amount of Fee for Survey ... £ ...
(Travelling Expenses, if any, £ ...)

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