

S.S. "Rheubina"

23166 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 13/4/79

Report (if any) on Hull of Vessel. Port Newcastle No. 14300

Description 2 cyl^s compound inverted S.C. Made by Hawks Crawshaw & Sons When March 1879 At Gates head on Tyne Diameter of cylinder 32 7/8 Length of stroke 40 No. of revolutions per minute 63 Point of cut off 9/16 of stroke Diameter of screw shaft 10 3/4 Diameter of crank shaft journals 10 3/4 Diameter of screw, or of paddle wheel 15 feet Pitch of screw 16 to 18 feet No. of blades (4) Total surface 58 sq. feet No. of bilge pumps (2) and sizes 4" dia, 20" stroke, Do they pump from each compartment Eng. room, Sea main hold, and aft. hold

Are all the bilge suction pipes fitted with roses Yes No. of feed pumps (2) and sizes 4" dia 20" stroke What gauges are there attached to the engines and boilers ... 1 Steam to each Boiler Eng. Room 1 ditto do Stoke Hold 1 Vacuum, 1 compound, Description and size of Donkey Pumps ... Ballast 10" dia 10" stroke D.A. 4" " 8" " D.A. Where do they pump from ... Ballast from tanks and same as bilge pumps Feed from Asphelt and same as Ballast pump No. of bilge injections (1) and sizes 6" Are they connected to air, or circulating pumps circulating Is there a hand pump in the engine room No Can it be worked by the main engines Feed donkey can be used Is there a deck hose of sufficient length to reach to any part of the vessel Yes Iron piping and 60 feet of hose.

MAIN BOILERS.

Number (2) Description Cylindrical Tubular Made by Hawks Crawshaw & Sons When March 1879 At Gates head on Tyne Working pressure 75 lbs Tested by hydraulic pressure to 150 lbs, Date 29.1.79 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 (2) Adams Tubus = 25 sq. inches No. of square feet of fire-grate surface in each boiler 43 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 4 except rose in main hold

DONKEY BOILER.

Description Cylindrical Vertical Where fixed in stokehold Working pressure 70 lbs p. sq. in.

Tested by hydraulic pressure to 140 lbs (20156) Date 25.1.79 D.B. Description and area of safety valves one dead weight - 11 sq. in No. of square feet of fire grate 22 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 ... (3) Stop valves rest are common 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 at water level Are they each fitted with a discharge valve on the plating of the vessel Yes

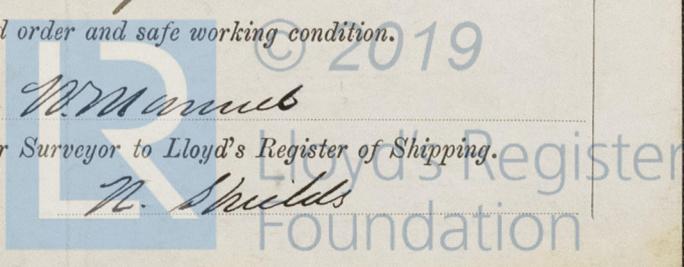
What pipes are carried through the bunkers None How are they protected None When were the stern tube, propeller, screw shaft, and all connections examined in dry dock Now Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge Yes Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead appears water tight and fitted with sluice door

Hawks Crawshaw & Sons Manufacturer. per W. Monkhouse

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 "Rheubina" owned by Mr. W. J. Saunders of the Port of Cardiff of 959.37 Tons Register, and 180 Registered Horse Power, and that they have been carefully inspected and examined by me at Gates head on Tyne Wallsend on and found to be at this date, viz., March 25th 1879 in good order and safe working condition.

Amount of Fee for Survey ... £ 9 : 0 : 0 Recd by George W. Munnis (Travelling Expenses, if any, £ 0 : 5 : 0) we Young Engineer Surveyor to Lloyd's Register of Shipping. 8/4/79. W. Shields

Form No. 8-1000-22 (978)



IRON483-0512

The Engines and Boilers of this vessel
are fitted in accordance with the
Committee's requirements, submitted that
she is eligible to have Lloyd's
M.C and a machinery Certificate.
Jan. 25. March 1879

AM 15.4.79



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Foundation