

S.S. "Rheubina." 23166 Iron
LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

Engines. No 18/4/79

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 1/8 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, 41 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. 'till in 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 1 steam to each Boiler Eng. Room
attached to the en- 1 ditto do Stoke hold
gines and boilers ... 1 Vacuum, 1 compound,
Description and size of Ballast 10" dia 10" stroke D.A.
Donkey Pumps ... 4" " 8" " D.A.
Where do they pump Ballast from tanks and
from same as Bilge pumps
Feed from Ashpit and some
as Ballast pump
No. of bilge injections 11 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 Yes Sea piping and
to reach to any part of the vessel 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 None
apparatus
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 2 Adams Tubular
safety valves on each boiler = 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 14 feet 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 J.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 3 Stop valves rest are
or common cocks ... 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 line
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 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 be 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
(Travelling Expenses, if any, £ 0 : 5 : 0)

George W. Mannes
Engineer Surveyor to Lloyd's Register of Shipping.
W. Shields

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

M 15.4.79



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