

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 8/5/19

Description Inverted Compound surface Condensing
Made by Messrs Hawks Crawshaw & Sons
When 1842 At Gateshead on Tyne
Diameter of cylinder 26" x 118" Length of stroke 30"
No. of revolutions per minute 65
Point of cut off 1/2 stroke
Diameter of screw shaft 8 1/2"
Diameter of crank shaft journals 8 1/2"
Diameter of screw, or of paddle wheel 11" 9"
Pitch of screw 13" 9"
No. of blades, 4 Total surface 38 1/2 sq. feet
No. of bilge pumps 2 and sizes 4" x 14" stroke
Do they pump from each compartment yes

MAIN BOILERS.

Number 1 Description Cyl. & Multitubular
Made by Mr. George Clark
When 1848 At Sunderland
Working pressure 45 lbs
Tested by hydraulic pressure to 150 lbs, Date
Description of super-heating apparatus None
Can each boiler be worked separately one boiler
Can the super-heater be shut off and the boilers worked separately No Superheater
Description and area of safety valves on each boiler 2 Spring valves 4" dia Area 25.12 sq. in
No. of square feet of fire-grate surface in each boiler 48 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, except roses in holds when loaded

DONKEY BOILER.

Description Circular-Vertical 2 Cross Tubes
Where fixed in Storehold
Working pressure 3 1/2 lbs per sq. in
Tested by hydraulic pressure to " " Date
Description and area of safety valves one 2 1/4 inch loaded & one 2 1/4 Lever Area = 7.9 sq. inches
No. of square feet of fire grate 12 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 & 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 the deep load 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 March 1849
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

To Geo. Clark, Esq. Clark Manufacturer of Main Boilers.

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 "Bentoni" owned by Chapman & Miller of the Port of London of 584 Tons Register, and 90 Registered Horse Power, and that they have been carefully inspected and examined by me at Sunderland and found to be at this date, viz., April 25th 1849 in good order and safe working condition.

Amount of Fee for Survey ... £ : :
(Travelling Expenses, if any, £ - - - - -)
see annexed report for fees. H.H.

M. G. G. G. Engineer Surveyor to Lloyd's Register of Shipping.
Sunderland
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