

19717 En

Port Newcastle Nov 23rd 1877
Jenny Otto. 94.67 tons

Details of Main Boilers of the Steam Ship

Diameter 11.9 Length 10.6

Thickness of shell plates 7/8

Description of riveting of longitudinal joints D.B.S. of circumferential joints Lap. D.

Pitch of rivets ditto 4 1/8 ditto 4 1/8

Diameter of rivets ditto 1 1/6 ditto 1 1/6

Lap of plating ditto 9" x 3/6 ditto 5

Size of manholes in circular shell none

How compensated for

Number of furnaces in boiler 3.

Diameter of furnaces 3.0 Length of furnaces 7.6

Thickness of furnace plates 1/2

Description of joint of furnaces D. B. J.

Whether strengthened with rings no Greatest length between rings

Thickness of combustion chamber plating 9/16

Diameter of screw stays to ditto 1 1/2 rivet hds. pitch of stays 9 1/2 x 9 1/2

End plates, thickness 5/8

Diameter of longitudinal stays to end plates 2" pitch of ditto 16 x 13

How stays are secured Double nuts and washers

Diameter of tubes 3 1/4 pitch of tubes 4 1/2 x 4 1/2

Thickness of tube plates 5/8

Stayed by stay tubes pitch of stays 13 1/2 x 13 1/2

Description of steam receiver Horizontal Cylindrical

Diameter of ditto 4.0 length of ditto 10.1 1/2

Thickness of plating of ditto 9/16 ends 9/16, dished

Ends, how stayed Three 2" stays, Double nuts & washers

Shell. 51520 x 1 1/4 x 1/4 = 72 lbs. Furnaces, 89600 x 1/4 = 83 lbs.
141 x 6.5 7 1/2 x 36

Long stay. 16 x 13 x 70 / 3.14 = 4630 lbs. plates 100 x 120 / 16 x 16 = 47 lbs + large washers

Screw stay. flat plates 81 x 100 / 90 = 90 lbs.

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G. W. Mummel & James Mutton
Engineer Surveyors to Lloyd's Register of Shipping.
North Shields

Distance between bunkers and boilers

Top — 13 inches
Side 7 inches

J. Milton



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