

19678 2yr

Port West Hartlepool 16 Dec 1877
34.6 tons

Details of Main Boilers of the Steam Ship

Hlenheim

Diameter 12' 10" Length 10' 3"

Thickness of shell plates 1/8

Description of riveting of longitudinal joints Double of circumferential joints Double

Pitch of rivets ditto 4 3/16 ditto 3

Diameter of rivets ditto 1 1/8 ditto 1 1/8

Lap of plating ditto Double Butt Straps ditto 5"

Size of manholes in ~~circular shell~~ end of boiler 15 x 11

How compensated for Rectangular plate

Number of furnaces in boiler 3

Diameter of furnaces 3' 0" Length of furnaces 7' 3"

Thickness of furnace plates 1/2"

Description of joint of furnaces Lap Double riveted

Whether strengthened with rings No Greatest length between rings

Thickness of combustion chamber plating 1/16

Diameter of screw stays to ditto 1 1/4 pitch of stays 1 3/4 x 1 1/2

End plates, thickness 1 3/16

Diameter of longitudinal stays to end plates 2 1/8 pitch of ditto 1 1/2 x 1 3/4

How stays are secured Nuts & washers

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

Thickness of tube plates 5/16

Stayed by Stay tubes pitch of stays 9 x 1 3/2

Description of steam receiver Cylindrical conical ends

Diameter of ditto 3' 0" length of ditto 6' 6"

Thickness of plating of ditto 1/16 ends 1/2

Ends, how stayed No stays

Shell $\frac{51520 \times 1 \frac{3}{4} \times \frac{1}{3}}{154 \times 6.5} = 65 \text{ lbs Working pressure}$

Furnaces $\frac{89600 \times \frac{1}{2}^2}{7.3 \times 36} = 83$

Flat plates between secured stays $\frac{100 \times \frac{1}{2}^2}{\frac{1}{34}} \frac{1}{1}$

James R. Lloyd's Register
Engineer Surveyor to Lloyd's Register of Shipping.

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Lloyd's Register of Shipping No. 3914
Hull of Vessel
No. 108