

16417 Irons

Rw 29/5/77

Port

Glasgow 2nd May 1876

Details of Main Boilers of the Steam Ship

"Maggie" 101 tons

Diameter 4' 6" Length 8' 0"

Thickness of shell plates 7/16"

Description of riveting of longitudinal joints Double riveted of circumferential joints Double riveted

Pitch of rivets ditto 4" ditto 4

Diameter of rivets ditto 7/8" ditto 7/8"

Lap of plating ditto double butt strap ditto 5 1/2"

Size of manholes in circular shell 18" x 13"

How compensated for flat ring 4" broad

Number of furnaces in boiler Two

Diameter of furnaces 2' 3" Length of furnaces 4' 4"

Thickness of furnace plates 7/16"

Description of joint of furnaces welded

Whether strengthened with rings None Greatest length between rings

Thickness of combustion chamber plating 7/16"

Diameter of screw stays to ditto 1 1/4" pitch of stays 8" x 8"

End plates, thickness 7/16"

Diameter of longitudinal stays to end plates 1 3/4" pitch of ditto One row 13" pitch

How stays are secured by double nuts

Diameter of tubes 3" pitch of tubes 4' 8"

Thickness of tube plates 7/16"

Stayed by tubes screwed & fitted with nuts pitch of stays 12 3/8" x 12 3/8"

Description of steam receiver Dome

Diameter of ditto 2' 0" height length of ditto 2' 6"

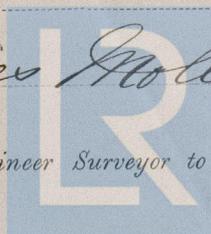
Thickness of plating of ditto 7/16"

Ends, how stayed No stays it is all welded

P.T.O

James Hollison

Engineer Surveyor to Lloyd's Register of Shipping.



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Formula $\frac{57520 \times 1.125'' \times 48\%}{88.84 \times 6.57} = 48 \text{ lbs}$

Formula for flat plates $\frac{100 \times 44}{64} = 76 \text{ lbs}$

Formula for Tubes $\frac{89600 \times .19}{24'' \times 5.3 \text{ ft.}} = 119 \text{ lbs}$

James Morrison



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