

20123 Iron

Port

Glasgow January 25<sup>th</sup> 1878  
"State of Louisiana" 1612 tons

## Details of Main Boilers of the Steam Ship

Diameter

10 ft

Length

12' 9"

Thickness of shell plates

1/6"

Description of riveting of longitudinal joints

Double

of circumferential joints

Double

Pitch of rivets

ditto

2 3/8"

ditto

2 3/4"

Diameter of rivets

ditto

ditto

Lap of plating

ditto

Double butt straps 12 x 3/4

ditto

6"

Size of manholes in circular shell

14" x 14"

How compensated for

By flat ring

Number of furnaces in boiler

Three

Diameter of furnaces

2' 5"

Length of furnaces

10 ft

Thickness of furnace plates

Lap 9/16"

Description of joint of furnaces

Lap joint single riveted

Whether strengthened with rings

no rings

Greatest length between rings

9/16" (Round tops 9/16")

Thickness of combustion chamber plating

Diameter of screw stays to ditto

1 1/4"

pitch of stays

7" x 7" fitted with nuts  
slow line of plate

End plates, thickness

14/16"

Diameter of longitudinal stays to end plates

1 3/4"

pitch of ditto

14" x 14"

How stays are secured

By double nuts

Diameter of tubes

4"

pitch of tubes

5 1/2"

Thickness of tube plates

14/16"

Stayed by

Lubes

pitch of stays

10 3/4" x 12"

Description of steam receiver

Domes

Diameter of ditto

3 ft

length of ditto

6 ft

Thickness of plating of ditto

10/16"

ends

10 1/16"

Ends, how stayed

By three stays 1 3/4" dia. (Attached by palm to angle bar  
on side. Shell under the dome)

Engineer Surveyor to Lloyd's Register of Shipping.



20123 Iron

Formula for Shell  $\frac{51620 \times 1.5 \times 60\% \text{ Long. Shear}}{120 \times 6.5} = 64 \text{ lbs}$

Formula for flat plates  $\frac{110 \times 64\%}{49} = 130 \text{ lbs}$

Formula for Lues  $\frac{84600 \times .25}{29" \times 10\text{ft}} = 74 \text{ lbs}$

Longitudinal Stays  $1\frac{3}{4}" \text{ dia. } 14" \times 14" \text{ pitch} = 5716 \text{ lbs}$





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