

16818 Jan

Reg 2/10/96

Port

Glasgow

Sept. 29th 1876

Details of Main Boilers of the Steam Ship

"Amulet"

614

tons

Diameter 12' 6"

Length 10' 0"

Thickness of shell plates

 $\frac{33}{32}$ "

Description of riveting of longitudinal joints

Double riveted

of circumferential joints

Double riveted

Pitch of rivets

ditto

4 $\frac{3}{4}$ "

ditto

4 $\frac{3}{4}$ "

Diameter of rivets

ditto

1 $\frac{1}{8}$ "

ditto

1 $\frac{1}{8}$ "

Lap of plating

ditto

3 $\frac{1}{2}$ "

ditto

5 $\frac{1}{4}$ "

Size of manholes in circular shell

15 $\frac{1}{2}$ " x 12 $\frac{1}{4}$ "

How compensated for

By Angle iron ring 3" x 3" x $\frac{7}{16}$ "

Number of furnaces in boiler

Three

Diameter of furnaces

3' 2"

Length of furnaces

7' 0"

Thickness of furnace plates

 $\frac{9}{16}$ "

Position of joint of furnaces

Welded

Boiler strengthened with rings

Iron

Greatest length between rings

Thickness of combustion chamber plating

 $\frac{9}{16}$ "

Pitch of screw stays to ditto

1 $\frac{1}{2}$ "

pitch of stays

9 $\frac{1}{2}$ " x 9 $\frac{1}{2}$ "

Thickness

1 $\frac{1}{8}$ "

Pitch of longitudinal stays to end plates

2 $\frac{1}{8}$ "

pitch of ditto

13" x 16"

How are secured

By double nuts

Diameter of tubes

3 $\frac{1}{4}$ "

pitch of tubes

4 $\frac{1}{4}$ "

Thickness of tube plates

1 $\frac{1}{8}$ "

by

Tubes

pitch of stays

13 $\frac{1}{2}$ " x 13 $\frac{1}{2}$ " (Mean)

Position of steam receiver

Round Longitudinal (Common to both Boilers)

Ditto

4' 0"

length of ditto

13 ft

Thickness of plating of ditto

 $\frac{9}{16}$ "

ends

1 $\frac{1}{8}$ "

Stayed

(Radial) or Stays

Sunkley Boiler 5 ft dia x 8 ft height plating $\frac{9}{16}$ "

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Engineer Surveyor to Lloyd's Register of Shipping.

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IRON 467-0448


16818 Iron

Formula for Shell $\frac{57520 \times .20625 \times 40\%}{148.9 \times 6.5} = 47 \text{ lbs}$

Formula for flat plates $\frac{100 \times 64}{90} = 71 \text{ lbs}$

Formula for Gues $\frac{89600 \times .31}{4 \times 38} = 104 \text{ lbs}$

Longitudinal Stays $28" \text{ dia } 16" \times 13" \text{ pitch} = 4635 \text{ lbs}$





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