

16452 Iron

Rev 8/6/76

Port

Greenock 31<sup>st</sup> May 1876

Details of Main Boilers of the Steam Ship

Stella

156

tons

Diameter

11' 0"

Length

9' 8"

Thickness of shell plates

 $\frac{14}{16}$ "

Description of riveting of longitudinal joints

treble riveted

of circumferential joints

Single riveted

Pitch of rivets

ditto

4 $\frac{1}{2}$ "

ditto

3"

Diameter of rivets

ditto

1"

ditto

1"

Lap of plating

ditto

6 $\frac{1}{2}$ "

ditto

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

Size of manholes in

Dome

How compensated for

by a ring 3" x  $\frac{14}{16}$ "

Number of furnaces in boiler

Two

Diameter of furnaces

39 $\frac{1}{2}$ "

Length of furnaces

7' 0"

Thickness of furnace plates

 $\frac{8}{16}$ "

Description of joint of furnaces

longitudinal joints welded, Cook's Comb joint in Centre

Whether strengthened with rings

Cook's Comb joint

Greatest length between rings

3' 6"

Thickness of combustion chamber plating

 $\frac{7}{16}$ "

Diameter of screw stays to ditto

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

pitch of stays

7 $\frac{1}{4}$ " x 8 $\frac{1}{2}$ "

End plates, thickness

 $\frac{10}{16}$ "

Diameter of longitudinal stays to end plates

2

pitch of ditto

17 $\frac{1}{2}$ " x 14"

How stays are secured

by double nuts

Diameter of tubes

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

pitch of tubes

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

Thickness of tube plates

 $\frac{10}{16}$ "

Stayed by

tubes screwed &amp; fitted with double nuts

pitch of stays

14 $\frac{1}{4}$ " x 9 $\frac{1}{2}$ "

Description of steam receiver

Dome

Diameter of ditto

3' 10"

height of ditto

6' 0"

Thickness of plating of ditto

if attached to triser by piece  $\frac{11}{16}$ " deep which is double riveted ends  $\frac{7}{16}$ "

Ends, how stayed

Three stays are fitted 2" dia. secured to shell by eye bolts &amp; to top by double nuts.

Lowkey boiler 3' 6" dia x 7' 0" high. plating  $\frac{7}{16}$ " & single riveted

Engineer Surveyor to Lloyd's Register of Shipping.



16452 For

Formula  $\frac{51020 \times 1.75'' \times 60\% \text{ of rivets}}{130.25'' \times 6.5''} = 64 \text{ lbs}$

Formula for flat plates  $\frac{100 \times 64''}{61''} = 104 \text{ lbs}$

Formula for Lunnaces  $\frac{59600 \times .25''}{4'' \times 39.5''} = 81 \text{ lbs. joint}$   
in Centre not considered or  $= 162 \text{ lbs taking}$   
the half length. —

Longitudinal Stays 2" dia.  $17\frac{1}{2}'' \times 14'' \text{ joint} = 500 \text{ lbs per}$

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