

17994 En

Port

Sunderland

Recd 9/3/77
1877.

Details of Main Boilers of the Steam Ship

"Telewilla"

tons

Diameter

11' 6"

Length

14' 0"

Thickness of shell plates

 $\frac{7}{8}$ "

Description of riveting of longitudinal joints

double & double butt ^{straps}

of circumferential joints

double

Pitch of rivets

ditto

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

ditto

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

Diameter of rivets

ditto

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

ditto

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

Lap of plating

ditto

9"

ditto

5 $\frac{1}{2}$ "

Size of manholes in circular shell

16" x 12"

How compensated for

by a rectangular plate 2' 2" x 2' 0" x $\frac{7}{8}$ " thick.

Number of furnaces in boiler

4

Diameter of furnaces

3' 2"

Length of furnaces

5' 6"

Thickness of furnace plates

 $\frac{1}{2}$ " & $\frac{9}{16}$ " bottoms.

Description of joint of furnaces

lapped and double riveted.

Whether strengthened with rings

none

Greatest length between rings

Thickness of combustion chamber plating

 $\frac{3}{16}$ "

Diameter of screw stays to ditto

1 $\frac{3}{16}$ " bottom of thread.

pitch of stays

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

End plates, thickness

 $\frac{13}{16}$ "

Diameter of longitudinal stays to end plates

2"

pitch of ditto

15" x 14"

How stays are secured

they are bolts extending through both ends.

Diameter of tubes

3" external.

pitch of tubes

4 $\frac{3}{8}$ " x 4 $\frac{3}{8}$ "

Thickness of tube plates

 $\frac{11}{16}$ "

Stayed by

stay tubes.

pitch of stays

13 $\frac{1}{8}$ " x 8 $\frac{3}{4}$ "

Description of steam receiver

dome with a contracted neck.

Diameter of ditto

3' 0"

length of ditto

5' 0"

Thickness of plating of ditto

 $\frac{7}{16}$ "

ends

 $\frac{1}{2}$ "

Ends, how stayed

no stays (the ends are conical)

$$\text{Shell} = \frac{51520 \times 1\frac{3}{4} \times 75}{136 \times 6.5} = 76 \text{ lbs working pressure.}$$

$$\text{Furnace} = \frac{89600 \times \frac{1}{2}^2}{5\frac{1}{2} \times 38} = 106 \text{ " " "}$$



© 2019

Lloyd's Register
Foundation