

17355
Perceinbert 16th
1876
16/11/76
85 tons

Port

Glasgow

Details of Main Boilers of the Steam Ship

Changed from ~~Harbour~~ to ~~Governor Allanguague~~

Diameter

9' 0"

Length

"Governor Allanguague"

Thickness of shell plates

1/8"

Description of riveting of longitudinal joints

Double twisted

of circumferential joints

Double twisted

Pitch of rivets

ditto

5 1/2"

ditto

5 1/2"

Diameter of rivets

ditto

1 1/8"

ditto

1 1/8"

Lap of plating

ditto

Double butt straps 11" x 1/2"

ditto

5"

Size of manholes in circular shell

16 1/2" x 17"

How compensated for

By flat ring

Number of furnaces in boiler

Two

Diameter of furnaces

3' 0" at mouth tapered to 2' 6"

Length of furnaces

6' 6"

Thickness of furnace plates

1/16"

Description of joint of furnaces

Single butt straps fitted

Whether strengthened with rings

none

Greatest length between rings

Thickness of combustion chamber plating

1/16"

Diameter of screw stays to ditto

1 1/8"

pitch of stays

1/4" x 1/4"

End plates, thickness

1/16"

Diameter of longitudinal stays to end plates

1 3/4"

pitch of ditto

13" x 14"

How stays are secured

By double nuts

Diameter of tubes

3"

pitch of tubes

4 1/4"

Thickness of tube plates

1/16"

Stayed by

Subes

pitch of stays

13 1/2" x 12 1/2" x 9"

Description of steam receiver

Same

Diameter of ditto

1' 9"

height of ditto

3' 6"

Thickness of plating of ditto

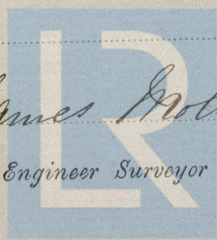
1/16"

ends

1/16"

Ends of stays

It is all welded



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Lloyd's Register Foundation

Engineer Surveyor to Lloyd's Register of Shipping.

James Morrison

17355 Iron.

Formula for Shell $\frac{57520 \times 1.5 \times 48\% \text{ rivets in double shear}}{106.5 \times 6.5} = 44 \text{ lbs}$

Formula for flat plate $\frac{100 \times 64}{49} = 130 \text{ lbs}$

Formula for Stues $\frac{89600 \times .20}{6.5^2 \times 38} = 103 \text{ lbs}$

Longitudinal Stays $1\frac{3}{4}'' \text{ dia } 14'' \times 13'' \text{ pitch} = 5684 \text{ lbs}$

— *RM* —



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