

17046 In

Rev 2/10/16

Port Glasgow Sept. 29th 1886

Details of Main Boilers of the Steam Ship "South Australian" 353 tons

Diameter 12' 6" height 14 ft Length 9' 6"

Thickness of shell plates 15/16"

Description of riveting of longitudinal joints Double riveted of circumferential joints Double riveted

Pitch of rivets ditto 5 1/4" ditto 5 3/4"

Diameter of rivets ditto 1 1/4" ditto 1 1/2"

Lap of plating ditto 4 1/2" ditto 5 1/2"

Size of manholes in circular shell 16" x 13"

How compensated for By Lat plate 5 x 1/6"

Number of furnaces in boiler Four (fired from one end)



Diameter of furnaces 3' 1" Length of furnaces 5' 9"

Thickness of furnace plates 9/16"

Description of joint of furnaces Fitted with double Butt Straps

Whether strengthened with rings None Greatest length between rings _____

Thickness of combustion chamber plating 9/16"

Diameter of screw stays to ditto 1 1/4" pitch of stays 8" x 8"

End plates, thickness 10/16"

Diameter of longitudinal stays to end plates 2 1/4" pitch of ditto 18" x 18"

" " Cross So " sides 2 1/4" one row 14" pitch

How stays are secured By double Butts

Diameter of tubes 4" pitch of tubes 5 1/4"

Thickness of tube plates 9/16"

Stayed by Lubes pitch of stays 14" x 14"

Description of steam receiver None

Diameter of ditto _____ length of ditto _____

Thickness of plating of ditto _____ ends _____

Ends, how stayed _____

Donkey Boiler 4 ft dia x 7' 6" high plating 7/16

Single riveted.

James Hollison

Formula for Shell $\frac{57520 \times 1.875 \times 40\%}{148 \times 6.5} = 40 \text{ lbs}$

Formula for flat plates $\frac{100 \times 49}{64} = 76 \text{ lbs}$

Formula for Gues $\frac{89600 \times .25}{5.75 \times 37} = 105 \text{ lbs}$

Longitudinal Stays $2\frac{1}{4}" \text{ dia. } 18" \times 17" \text{ pitch} = 5390 \text{ lbs}$

Cross Stays $2\frac{1}{4}" \text{ dia. } 17" \text{ pitch one row} = 5390 \text{ lbs}$

JM



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