

16502 Iron.

Port

Sunderland

Reg. 27/6/76
June 1876.

Details of Main Boilers of the Steam Ship

"Malaga"

tons

Diameter 12' 6" Length 9' 5"

Thickness of shell plates 1 1/8"

Description of riveting of longitudinal joints double & double butt of circumferential joints double.

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

Diameter of rivets ditto 1 1/2" ditto 1 3/16"

Lap of plating ditto 10 1/4" ditto 5 1/4"

Size of manholes in circular shell 15 1/2" x 11 1/2"

How compensated for by a rectangular plate 2' 4" x 2' 0" x 1 1/2"

Number of furnaces in boiler 3.

Diameter of furnaces 2' 11" Length of furnaces 6' 9"

Thickness of furnace plates 1/2" & 9/16"

Description of joint of furnaces double butt & single riveted.

Whether strengthened with rings none. Greatest length between rings

Thickness of combustion chamber plating 1/2"

Diameter of screw stays to ditto 1 1/2" over the thread pitch of stays 7" x 7"

End plates, thickness 7/8"

Diameter of longitudinal stays to end plates 2 1/2" pitch of ditto 16" x 14 3/4"

How stays are secured they are bolts going through both ends.

Diameter of tubes 3 1/4" external diameter. pitch of tubes 4 5/8" x 4 1/2"

Thickness of tube plates 7/8"

Stayed by stay tubes. pitch of stays 9 1/4" x 9"

Description of steam receiver dome with contracted neck.

Diameter of ditto 3' 3" length of ditto 5' 6"

Thickness of plating of ditto 1/2" ends 5/8"

Ends, how stayed by 5 stay bolts 2 1/2" diameter.

$$\text{Shells} = \frac{51520 \times 2 \frac{1}{2} \times 72}{148 \times 6.5} = 81 \text{ lbs working pressure.}$$

$$\text{Furnaces} = \frac{89600 \times \frac{1}{2}^2}{6 \frac{3}{4} \times 35} = 94 \text{ " " "}$$

William Allison.

Engineer Surveyor to Lloyd's Register of Shipping.

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