

17045 En

Rev 2/10/76

Port *Sunderland Aug 24 1876*

Details of Main Boilers of the Steam Ship

*William 47.26 tons*

Diameter *8' 11"* Length *4' 3"*

Thickness of shell plates *5/8"*

Description of riveting of longitudinal joints *Double* of circumferential joints *Single*

Pitch of rivets ditto *2 3/4* ditto *2 1/2*

Diameter of rivets ditto *7/8* ditto *7/8*

Lap of plating ditto *2 3/4* ditto *2 3/4*

Size of manholes in circular shell *16" x 12"*

How compensated for *Long round hole*

Number of furnaces in boiler *2*

Diameter of furnaces *2' 7"* Length of furnaces *5' 0"*

Thickness of furnace plates *7/16*

Description of joint of furnaces *Lap Single jointed*

Whether strengthened with rings *No* Greatest length between rings *5*

Thickness of combustion chamber plating *7/16 full* *0' 10" 10*

Diameter of screw stays to ditto *1 1/4 over threads* pitch of stays *1 1/8 stay*

End plates, thickness *7/16* *0 1/8*

Diameter of longitudinal stays to end plates *1 5/8* pitch of ditto

How stays are secured *2 double angle iron*

Diameter of tubes *3"* pitch of tubes *4 1/4"*

Thickness of tube plates *5/8*

Stayed by *Stay tubes* pitch of stays *16"*

Description of steam receiver *Steam dome*

Diameter of ditto *2' 6"* length of ditto *3' 0"*

Thickness of plating of ditto *3/8* ends *7/16*

Ends, how stayed *One stay 1 5/8 dia*

*Shell* 
$$\frac{51520 \times 144 \times .58}{107 \times 6.5} = 63 \text{ lbs}$$

*Furnaces* 
$$\frac{89600 \times \frac{7}{16}^2}{5 \times 31} = 110 \text{ lbs}$$

Port North Shields No. 1000 on Hull of Vessel. Report (if any)