

Port *Sunderland July 27<sup>th</sup> 1876*

Details of Main Boilers of the Steam Ship

*Claf Nygverson 404 tons*

Diameter *12' 0" mean* Length *10' 6" inside*

Thickness of shell plates *2 1/32*

Description of riveting of longitudinal joints *Double 4/4* of circumferential joints *4/4*

Pitch of rivets ditto *4 1/2* ditto *4 1/8*

Diameter of rivets ditto *1 1/16* ditto *1 1/16*

Lap of plating ditto *Double straps 9" broad* ditto *4 1/2*

Size of manholes in circular shell *10 x 16*

How compensated for *Angle irons round bottom of dome*

Number of furnaces in boiler *3*

Diameter of furnaces *3' 1"* Length of furnaces *7' 6"*

Thickness of furnace plates *1/2*

Description of joint of furnaces *Bull. Double straps. Single riveted*

Whether strengthened with rings *No* Greatest length between rings *2*

Thickness of combustion chamber plating *9/16*

Diameter of screw stays to ditto *1 1/2 top of thread* pitch of stays *9 1/2 x 9 1/2*

End plates, thickness *1/16*

Diameter of longitudinal stays to end plates *2" effective* pitch of ditto *16 1/2" x 13"*

How stays are secured *Put inside and out*

Diameter of tubes *3 1/4 outside* pitch of tubes *4 1/2 x 4 1/2*

Thickness of tube plates *3/8*

Stayed by *Stay tubes* pitch of stays *13 1/2 x 13 1/2*

Description of steam receiver *Steam dome*

Diameter of ditto *4' 0"* length of ditto *11' 0"*

Thickness of plating of ditto *9/16* ends *5/8*

Ends, how stayed *Four stays 2 1/4 dia*

*Dome secured to shell by angle iron 1/4 x 1/4 double riveted*

*Shell  $51820 \times 1 1/16 \times .763 = 70$  lbs Working Pressure  
 $144 \times 6.5$*

*Flat plates between screwed stays  $100 \times 9^2 = 89$  lbs  
 $9 1/2 \times 9 1/2$*

*Furnaces  $89600 \times 5^2 = 80$  lbs Working Pressure  
 $7.5 \times 37$*

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Port *Newcastle*  
No. *13285*  
Report (if any) on Hull of Vessel.