

17919 Brn

Port *Sunderland*
"Daybreak"

1876
 17919
 tons

Details of Main Boilers of the Steam Ship

Diameter *11' 9"* Length *9' 9"*
 Thickness of shell plates *1/8"*
 Description of riveting of longitudinal joints *double & double butt*, of circumferential joints *double*,
 Pitch of rivets ditto *4 1/2"* ditto *3 1/8"*
 Diameter of rivets ditto *1 1/8"* ditto *1 1/8"*
 Lap of plating ditto *8 3/4"* ditto *5 1/2"*
 Size of manholes in circular shell *in end 16" x 12"*
 How compensated for *by a rectangular plate 2' 0" x 2' 0" x 1/8"*
 Number of furnaces in boiler *2*
 Diameter of furnaces *3' 3"* Length of furnaces *6' 9"*
 Thickness of furnace plates *1/2"*
 Description of joint of furnaces *lapped and double riveted*
 Whether strengthened with rings *none* Greatest length between rings *r*
 Thickness of combustion chamber plating *1/2"*
 Diameter of screw stays to ditto *1 5/16" over threads* pitch of stays *7" x 7 3/4"*
 End plates, thickness *3/4"*
 Diameter of longitudinal stays to end plates *2"* pitch of ditto *15" x 14"*
 How stays are secured *they are butts with nuts on each side of end plates*
 Diameter of tubes *3 1/4"* pitch of tubes *4 1/2" x 4 1/2"*
 Thickness of tube plates *1/16"*
 Stayed by *stay tubes* pitch of stays *9" x 13 1/2"*
 Description of steam receiver *dome with contracted neck*
 Diameter of ditto *3' 0"* length of ditto *5' 6"*
 Thickness of plating of ditto *1/16"* ends *5"*
 Ends, how stayed *none (the end is spherical)*

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

$$\text{Shell} = \frac{51520 \times 1 3/4 \times 75}{139 1/4 \times 6.5} = 74 \text{ lbs working pressure}$$

$$\text{Furnaces} = \frac{89600 \times 1/2^2}{39 \times 6 3/4} = 85 \text{ " " "}$$