

18591. Iron
 Port Sunderland June 1871 787 tons
 " Linden "

Details of Main Boilers of the Steam Ship

Diameter 11' 2" Length 9' 9"

Thickness of shell plates $\frac{13}{16}$ "

Description of riveting of longitudinal joints double & double butt ^{straps} of circumferential joints double

Pitch of rivets ditto $3\frac{7}{8}$ ditto $3\frac{1}{2}$

Diameter of rivets ditto 1" ditto 1"

Lap of plating ditto 10 straps ditto 5'

Size of manholes in circular shell 16" x 13"

How compensated for by a ring 7" broad x $\frac{3}{8}$ " thick

Number of furnaces in boiler 2

Diameter of furnaces 3' 3" Length of furnaces 7' 0"

Thickness of furnace plates $\frac{1}{2}$ "

Description of joint of furnaces Lapped and double riveted

Whether strengthened with rings none Greatest length between rings —

Thickness of combustion chamber plating $\frac{1}{16}$ "

Diameter of screw stays to ditto $1\frac{3}{16}$ at bottom of heads pitch of stays $7 \times 7\frac{3}{4}$

End plates, thickness $\frac{1}{16}$ " and plates $\frac{1}{2}$ " thick riveted

Diameter of longitudinal stays to end plates $2\frac{1}{2}$ pitch of ditto $18\frac{1}{2} \times 14\frac{1}{2}$

How stays are secured they are bolts extending through both ends

Diameter of tubes $3\frac{1}{2}$ external pitch of tubes $4\frac{3}{4} \times 4\frac{3}{4}$

Thickness of tube plates $\frac{3}{8}$ "

Stayed by stay tubes pitch of stays $9\frac{1}{2} \times 9\frac{1}{2}$

Description of steam receiver Horizontal dome

Diameter of ditto 3' 3" length of ditto 7' 0"

Thickness of plating of ditto $\frac{3}{8}$ " ends $\frac{3}{8}$ "

Stays, how stayed No stays. (the ends are spherical)

$$\text{Shell} = \frac{51520 \times 1\frac{3}{8} \times 74}{132 \times 6.5} = 72 \text{ lbs working pressure.}$$

$$\text{Furnaces} = \frac{89600 \times 1\frac{1}{2}^2}{4 \times 39} = 82 \text{ " " "}$$

Port Sunderland No. 18591. Iron
 Report (if any) on Hull of Vessel.