

~~17125~~ Iron 17215

Port

Glasgow

Oct. 1876

Rec 26/10/76

188 tons

Details of Main Boilers of the Steam Ship

"Ann"

Diameter 10' 8" Length 8' 8"

Thickness of shell plates $\frac{25}{32}$ "

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

Pitch of rivets ditto $4\frac{1}{2}$ " ditto $3\frac{3}{4}$ "

Diameter of rivets ditto 1" ditto 1"

Lap of plating ditto 4" ditto $4\frac{1}{2}$ "

Size of manholes in circular shell 12" x 16"

How compensated for *By angle iron ring*

Number of furnaces in boiler *Two*

Diameter of furnaces 3' 4" Length of furnaces 6 ft.

Thickness of furnace plates $\frac{5}{16}$ "

Description of joint of furnaces *Double butt straps fitted*

Whether strengthened with rings *None* Greatest length between rings

Thickness of combustion chamber plating $\frac{5}{16}$ "

Diameter of screw stays to ditto $1\frac{3}{8}$ " pitch of stays $8\frac{1}{2}$ " x $8\frac{1}{2}$ "

End plates, thickness $\frac{12}{16}$ "

Diameter of longitudinal stays to end plates $2\frac{1}{8}$ " pitch of ditto $15\frac{1}{2}$ " x $15\frac{1}{2}$ "

How stays are secured *By double nuts*

Diameter of tubes $3\frac{1}{4}$ " pitch of tubes $4\frac{1}{4}$ "

Thickness of tube plates $\frac{12}{16}$ "

Stayed by *Subs screwed fitted with nuts* pitch of stays $12\frac{3}{4}$ " x $12\frac{3}{4}$ "

Description of steam receiver *None connected to boiler by neck piece*

Diameter of ditto 3' 0" height of ditto 3' 6"

Thickness of plating of ditto $\frac{10}{16}$ " ends $\frac{10}{16}$ "

ends, how stayed *Top & Bottom radial no stays.*

Longer boiler 4' 3" dia x 8 ft. high. plating $\frac{5}{16}$ " double & single riveted.

17215 ~~1725~~ Iron

Formula for Shell $\frac{51520 \times 1.56 \times 4\frac{1}{2}\% \text{ rivets}}{126.375 \times 6.5} = 79 \text{ lbs}$

Formula for Hat plates $\frac{100 \times 64}{42} = 88 \text{ lbs}$

Formula for Lugs $\frac{89600 \times .25}{6 \times 40} = 93 \text{ lbs}$

Longitudinal Stays 28" dia. 15½" x 15½" pitch = 46½ lb

JM



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