

16012 Lm

S.S. "Uganda"

Details of Main Boilers

Rec 13/3/76

Diameter of Boiler 8' 0"

Thickness of Shell $\frac{7}{16}$ "

Description of riveting Horizontal seams, double. Circumferential seams, single

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

Lap $4\frac{1}{2}$ " 3"

Dia of rivets $\frac{7}{8}$ " $\frac{7}{8}$ "

No of furnaces 2

Dia of furnaces 2' 6"

Length of furnaces 6' 10"

Thickness of furnace plates $\frac{7}{16}$ "

Joints of furnaces, lapped and single riveted

Dia of rivets $\frac{3}{4}$ " pitch 2" $\frac{89600 \times .1914}{6.84 \times 30} = 83 \text{ lbs. Working Pressure}$

No strengthening rings

Combustion chamber plating Back and top $\frac{1}{16}$ " thick. Ends $\frac{1}{2}$ "

Screwed stays $1\frac{1}{16}$ " dia. 9" x 8" pitch. Formulae for flat plates = 69 lbs

End plates of Boiler $\frac{1}{2}$ " thick

Stays to ditto $1\frac{5}{8}$ " dia. Pitch 15" x 9" = 4233 lbs per sq. in. of section

Stays secured with nuts inside and out and with washers 6" dia

Tube plates $\frac{3}{8}$ " thick. Tube stays pitched 15" x 15" nuts inside & out

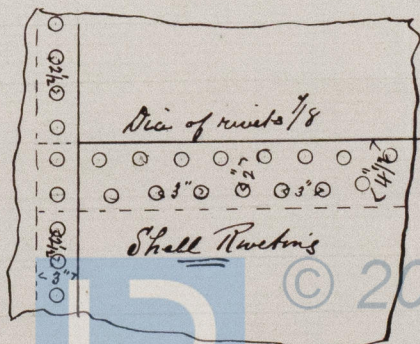
Dome 3' 6" dia. Plating $\frac{1}{16}$ " thick. $\frac{3}{4}$ " Rivets. 2" pitch. Single riveted

4 Stays in dome $1\frac{7}{8}$ " dia

Hole in shell under dome 12" x 16"

Shell

$$\frac{51520 \times 1.125 \times .71}{96 \times 6.5} = 66 \text{ lbs working Pressure}$$



James I Baird

Mar. 18/76

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