

171 70 Lm

Recd 2/10/76

Port

Glasgow Sept. 29th 1876

Details of Main Boilers of the Steam Ship

"Kanaka" 278 tons

Diameter 13' 6" Length 11' 9"

Thickness of shell plates $\frac{17}{16}$ "Description of riveting of longitudinal joints *Double riveted butt straps* circumferential joints *Double riveted*Pitch of rivets ditto $5\frac{3}{4}$ " ditto $5\frac{1}{2}$ "Diameter of rivets ditto $1\frac{1}{16}$ " ditto $1\frac{1}{8}$ "Lap of plating ditto *Double butt straps 11' 2" x 16'* ditto $5\frac{1}{2}$ "Size of manholes in circular shell $17" \times 13\frac{3}{4}"$ How compensated for *By flat rim 4" x 16'*Number of furnaces in boiler *Three*Diameter of furnaces *3' 3" tapering to 2' 11"* Length of furnaces $8' 10"$ Thickness of furnace plates $\frac{8}{16}$ "Description of joint of furnaces *Single butt straps fitted*Whether strengthened with rings *None* Greatest length between ringsThickness of combustion chamber plating $\frac{8}{16}$ "Diameter of screw stays to ditto $1\frac{1}{8}"$ pitch of stays $4" \times 4"$ Thickness $\frac{12}{16}"$ Pitch of longitudinal stays to end plates $2\frac{1}{4}"$ pitch of ditto $19" \times 1\frac{1}{4}"$ Stays are secured *By Double nuts*Diameter of tubes $4"$ pitch of tubes $5\frac{1}{2}"$ Thickness of tube plates $\frac{10}{16} + \frac{12}{16}"$ Stayed with *Tubes* pitch of stays $11" \times 16"$ Description of steam receiver *Round Longitudinal*Diameter of ditto $2' 0"$ length of ditto $11' 9"$ Thickness of plating of ditto $\frac{9}{16}"$ ends $\frac{7}{16}"$ Ends stayed *No Stays*Donkey Boiler $4' 6"$ dia x $7' 6"$ high plating $\frac{7}{16}"$ single

riveted.

No. 4312
Port Glasgow
Report (if any) on Hull of Vessel.

$$\text{Formula for Shell} \quad \frac{57520 \times 1.875 \times 40\%}{156 \times 6.5} = 45 \text{ lbs}$$

$$\text{Formula for flat plates} \quad \frac{100 \times 49}{49} = 100 \text{ lbs}$$

$$\text{Formula for Gues} \quad \frac{89600 \times .25}{8.75 \times 37} = 40 \text{ lbs}$$

$$\text{Longitudinal Stay} \quad 2\frac{1}{4}'' \text{ dia } 19'' \times 17'' \text{ pitch} = 5049 \text{ lbs}$$

— J. M. —



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