

16588 Iron

Rec 4/7/76

Port

Glasgow

June 26th 1876

Details of Main Boilers of the Steam Ship

"Wairarapa" 228

tons

Diameter 12' 6" Length 11' 8"

Thickness of shell plates $\frac{15}{16}$ "

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

Pitch of rivets ditto $5\frac{1}{2}$ " ditto $5\frac{1}{2}$ "Diameter of rivets ditto $1\frac{1}{4}$ " ditto $1\frac{1}{8}$ "Lap of plating ditto double butt straps $11\frac{1}{2} \times \frac{3}{4}$ " ditto $5\frac{1}{2}$ "Size of manholes in circular shell $14 \times 16\frac{1}{2}$ "

How compensated for by a flat ring 4" broad

Number of furnaces in boiler Three

Diameter of furnaces $3' 2"$ tapered to $2' 8"$ Length of furnaces $9' 0"$ Thickness of furnace plates $\frac{9}{16}$ "

Description of joint of furnaces fitted with double butt straps

Whether strengthened with rings none Greatest length between rings

Thickness of combustion chamber plating $\frac{9}{16}$ "Diameter of screw stays to ditto $1\frac{1}{4}$ " pitch of stays $6\frac{3}{4} \times \frac{1}{2}$ " at back & $8\frac{1}{2} \times 8\frac{1}{2}$ " at sidesEnd plates, thickness $\frac{1}{16}$ "Diameter of longitudinal stays to end plates $2\frac{1}{4}$ " pitch of ditto 18×18 "

How stays are secured by double nuts

Diameter of tubes 4" pitch of tubes $5\frac{1}{2}$ "Thickness of tube plates $\frac{1}{16}$ "Stayed by tube screw fitted with double nuts pitch of stays $11 \times 16\frac{1}{2}$ "

Description of steam receiver Round Longitudinal

Diameter of ditto $2' 0"$ length of ditto 13ft. Thickness of plating of ditto $\frac{7}{16}$ " ends $\frac{7}{16}$ "

Ends, how stayed No stays

Lonsley Boiler $4' 10$ dia $\times \frac{1}{4} 6$ high plating $\frac{7}{16}$ "

James Morrison

Engineer Surveyor to Lloyd's Register of Shipping

Foundation

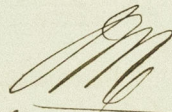
16588 Iron.

Formulae for Shell $\frac{57520 \times 1.875 \times 40\%}{148.125 \times 6.5} = 42 \text{ lbs}$

Formula for flat plates $\frac{100 \times 64}{80} = 80 \text{ lbs}$

Formula for Girders $\frac{89600 \times .20}{9' \times 35" \text{ mean}} = 41 \text{ lbs}$

Longitudinal Stay $\frac{1}{4}" \text{ dia. } 18" \times 18" \text{ pitch} = 53.84 \text{ lbs}$





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