

18917 In

Port

Greenock July 26<sup>th</sup> 1874  
"Lura" 146.52 tons  
Dec 30/1/11

## Details of Main Boilers of the Steam Ship

Diameter 9' 10" Length 9' 4"

Thickness of shell plates  $\frac{11}{16}$ "

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

Pitch of rivets ditto 3" ditto  $2\frac{3}{4}$ "Diameter of rivets ditto  $\frac{7}{8}$ " ditto  $\frac{7}{8}$ "Lap of plating ditto Double butt straps  $10\frac{1}{2} \times 8\frac{1}{16}$ " ditto 3"Size of manholes in circular shell  $13\frac{1}{2} \times 14\frac{1}{2}$ "How compensated for By flat ring  $3 \times \frac{14}{16}$ "

of furnaces in boiler Lura

Diameter of furnaces 3' 2" Length of furnaces 6' 6"

Thickness of furnace plates  $\frac{9}{16}$ "

Description of joint of furnaces Double butt straps

Whether strengthened with rings none Greatest length between rings

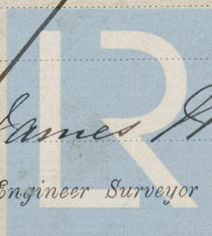
Thickness of combustion chamber plating  $13\frac{1}{2}$ "Diameter of screw stays to ditto  $1\frac{1}{4}$ " pitch of stays  $8\frac{1}{2} \times 8\frac{1}{2}$ "End plates, thickness  $\frac{9}{16}$ "Diameter of longitudinal stays to end plates  $1\frac{7}{8}$ " pitch of ditto

How stays are secured By double nuts

Diameter of tubes 3" pitch of tubes  $4\frac{1}{4}$ "Thickness of tube plates  $\frac{9}{16}$ "Stayed by Lura  $\frac{1}{4}$ " thick pitch of stays  $12\frac{3}{4} \times 12\frac{3}{4}$ "

Description of steam receiver Round Longitudinal

Diameter of ditto 3 ft length of ditto 4' 6"

Thickness of plating of ditto  $\frac{7}{16}$ " ends  $\frac{9}{16}$ "Ends, how stayed By three stays  $1\frac{1}{4}$ " dia.

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P.T.O.



Formula for Shell  $\frac{51520 \times 1.375 \times 45\%}{116.625 \times 6.5} = 42 \text{ lbs}$

Formula for Flat plates  $\frac{100 \times 42}{42} = \frac{58 \text{ lbs}}{65 \text{ W.P.}}$

Formula for Lugs  $\frac{89600 \times 25}{6.5' \times 38"} = 152 \text{ lbs}$

Longitudinal Stays  $1\frac{3}{8}" \text{ dia } 13\frac{1}{2}" \times 13\frac{1}{2}" \text{ pitch} = 438\frac{1}{2}$

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