

16887 Jan

Recd 24/8/76

Port

Greenock Aug 18th 1876

Details of Main Boilers of the Steam ~~Ship~~ Yacht "Dobhran" 180 tons

Diameter 9' 6" Length 4' 6"

Thickness of shell plates 17/16"

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

Pitch of rivets ditto 3 3/4" ditto 2 5/8"

Diameter of rivets ditto 1 1/6" ditto 1"

Lap of plating ditto 5 1/2" ditto 3 1/2"

Size of manholes in circular shell 13" x 14"

How compensated for By angle iron ring 3" x 3" x 5/8"

Number of furnaces in boiler Two

Diameter of furnaces 3' 0" Length of furnaces 5' 2"

Thickness of furnace plates 7/16"

Description of joint of furnaces Double butt strapped

Whether strengthened with rings None Greatest length between rings

Thickness of combustion chamber plating 7/16"

Diameter of screw stays to ditto 1 3/8" pitch of stays 9" x 8 1/2"

End plates, thickness 10/16"

Diameter of longitudinal stays to end plates 1 3/8" pitch of ditto 14 1/2" x 14 1/2"

How stays are secured By double nuts

Diameter of tubes 2 3/4" pitch of tubes 4"

Thickness of tube plates 10/16"

Stayed by Tubes screwed fitted with nuts pitch of stays 12" x 8"

Description of steam receiver Round vertical with single flue

Diameter of ditto 6' 2" flue 3' 4 1/2" height of ditto 4' 9"

Thickness of plating of ditto 8/16" ends 10/16"

Ends, how stayed By angle iron round flue & shell

Report (if any) on Hull of vessel. Port Greenock No. 4042

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IRON468-0021

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Formula for Shell $\frac{57520 \times 1.5 \times 63\% \text{ rivet}}{112.5 \times 6.5} = 65 \text{ lbs}$

Formula for flat plate $\frac{100 \times 49}{4.20} = 68 \text{ lbs}$

Formula for Stues $\frac{89600 \times .19}{5.16 \times 36} = 91 \text{ lbs}$

Longitudinal Stays $1\frac{3}{8}'' \text{ dia, } 14\frac{1}{2}'' \times 14\frac{1}{2}'' \text{ pitch} = 4951 \text{ lbs}$

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