

17045 En

Rec 2/10/76

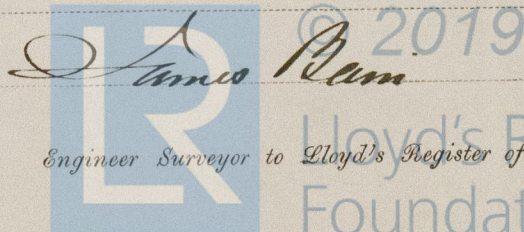
Port *Sunderland Aug 24 1876*

Details of Main Boilers of the Steam Ship

*William 47. 26 tons*Diameter *8' 11"* Length *4' 3"*Thickness of shell plates *3/8"*Description of riveting of longitudinal joints *Double* of circumferential joints *Single*Pitch of rivets ditto *2 3/4* ditto *2 1/2*Diameter of rivets ditto *7/8* ditto *7/8*Lap of plating ditto *2 3/4* ditto *2 3/4*Size of manholes in circular shell *16" x 12"*How compensated for *Long round hole*Number of furnaces in boiler *2*Diameter of furnaces *2' 7"* Length of furnaces *5' 0"*Thickness of furnace plates *7/16*Description of joint of furnaces *Lap. Single riveted*Whether strengthened with rings *No* Greatest length between rings *2*Thickness of combustion chamber plating *7/16 full* *0' 10" 10*Diameter of screw stays to ditto *1 1/4 over threads* pitch of stays *1 1/8 stay*End plates, thickness *7/16* *0 1/8*Diameter of longitudinal stays to end plates *1 5/8* pitch of ditto *0 1/8*How stays are secured *2 double angle iron*Diameter of tubes *3"* pitch of tubes *4 1/4"*Thickness of tube plates *5/8*Stayed by *Stay tubes* pitch of stays *16"*Description of steam receiver *Steam dome*Diameter of ditto *2' 6"* length of ditto *3' 0"*Thickness of plating of ditto *3/8* ends *7/16*Ends, how stayed *One stay 1 5/8 dia*

$$\text{Shell } \frac{51520 \times 14 \times .58}{107 \times 6.5} = 63 \text{ lbs}$$

$$\text{Furnaces } \frac{89600 \times \frac{1}{16}^2}{5 \times 31} = 110 \text{ lbs}$$



Engineer Surveyor to Lloyd's Register of Shipping.

Foundation

120N468-0276