

19651200

Port of Newcastle 29th Oct 1874
"Papua" 835.76 tons

Details of Main Boilers of the Steam Ship

Diameter 11' 0" Length 9' 4 1/4"
Thickness of shell plates 15/16"

Description of riveting of longitudinal joints double zig zag butt of circumferential joints double lap zig zag

Pitch of rivets ditto 3 1/2" ditto 3"

Diameter of rivets ditto 1 3/16" ditto 1"

Lap of plating ditto 10" butt strap ditto 3 1/8"

Size of manholes in circular shell 11 1/4" x 13 1/2"

How compensated for unequal heat 1" x 6"

Number of furnaces in boiler (2)

Diameter of furnaces 3' 2" Length of furnaces 6' 6" x 8' 3"

Thickness of furnace plates 1/2" top, 9/16" bottom,

Description of joint of furnaces single riveted lap,

Whether strengthened with rings none Greatest length between rings —

Thickness of combustion chamber plating 1/2"

Diameter of screw stays to ditto 1 1/4" pitch of stays 8 1/2" x 8 1/4"

End plates, thickness 3/4" top, 1/2" bottom,

Diameter of longitudinal stays to end plates 2 1/4" pitch of ditto 14 1/2" x 14 1/2"

How stays are secured double nut washers

Diameter of tubes 3 1/4" outside pitch of tubes 14 1/2" x 4 1/2"

Thickness of tube plates 1/16"

Stayed by tube stays pitch of stays 13 1/2" x 9"

Description of steam receiver horizontal cylindrical between boilers

Diameter of ditto 4' 0" length of ditto 5' 6"

Thickness of plating of ditto 1/2" ends 1/16"

Ends, how stayed (4) 2" dia stays secured by double nut washers

Working pressure cylindrical shell, $\frac{51520 \times 1.91 \times 41}{132 \times 65} = 79 \text{ lb}$

Ditto " Furnace Flue, $\frac{89600 \times .31}{8.3 \times 38} = 88 \text{ lb}$

Ditto " Man Stays, $\frac{14.5 \times 14.5 \times 45}{3.0} = 5256 \text{ lb}$

Ditto " Combustion chamber stays, $\frac{8.5 \times 8.25 \times 45}{1.22} = 4309 \text{ lb}$

Ditto " Flat plates man Stays, $\frac{120 \times 144}{210} = 81 \text{ lb}$

Ditto " ditto combustion chambers, $\frac{100 \times 64}{12.2} = 88 \text{ lb}$

George W. Manuel
Engineer Surveyor to Lloyd's Register of Shipping.
North Shields

Smallest space between Britus & Coal Britus 9³
H.N.M.

11/11/11



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