

12636 Shon

Port of Newcastle No. 9th "Merissa" 1299.17 1877 13/11/77 tons

Details of Main Boilers of the Steam Ship

Diameter 13' 6" Length 10' 3"

Thickness of shell plates 1 1/8"

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

Pitch of rivets ditto 4" ditto 3 1/4"

Diameter of rivets ditto 1 3/16" ditto 1 5/16"

Lap of plating ditto 11 3/4" butt straps ditto 5 7/8"

Size of manholes in circular shell 15 1/2 x 11 1/4"

How compensated for M.I. ring 4 x 1/2" stiffened by 3 stays

Number of furnaces in boiler 131

Diameter of furnaces 3' 0" Length of furnaces 1' 0"

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

Description of joint of furnaces single riveted butt strap 5" wide

Whether strengthened with rings 1/2 on bottom Greatest length between rings 7' 0"

Thickness of combustion chamber plating 1/2"

Diameter of screw stays to ditto 1 1/4" pitch of stays 8" x 1 1/2" x 1 1/2" x 11 1/2"

End plates, thickness 1 3/8" top 1 1/8" bottom

Diameter of longitudinal stays to end plates 2 3/8" pitch of ditto 15" x 15"

How stays are secured double nuts & washers

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

Thickness of tube plates 3/4"

Stayed by tube stays pitch of stays 14 1/4" x 14 1/4"

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 3/4"

Ends, how stayed (4) 2 3/8" stays

Working pressure cylindrical shell 51520 x 2.36 x 70 = 80 lbs

Ditto Furnace Flue 162 x 6.5 = 88 lbs

Ditto Main Stay 15 x 15 x 80 = 5428 lbs

Ditto combustion chamber stays 8.0 x 1.5 x 80 = 3046 lbs

Ditto Flat plates main stay 120 x 1.09 = 90 lbs

Ditto Flat plates combustion chamber 121 x 1.21 = 110 lbs

George W. Mammul

Engineer Surveyor to Lloyd's Register of Shipping.

North Shields

19636 Lons

729 Smallest space between Brackets & Brackets 10"

U. 7776

Tracing of Brackets & certificates of Mick Brackets attached to
this Report.



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Foundation