

19122 Iron

Port

Hull, June 7th

1877

Details of Main Boilers of the Steam Ship

Lancaster

672.29 tons

Diameter

11' 0" ^{13/16}

Length

10' 0 1/4"

Thickness of shell plates

Description of riveting of longitudinal joints

Lap, double riv.

of circumferential joints

Lap, double riv.

Pitch of rivets

ditto

4 3/4"

ditto

3 9/16"

Diameter of rivets

ditto

1 1/8"

ditto

1 1/8"

Lap of plating

ditto

7/8"

ditto

5 7/16"

Size of manholes in circular shell

16" x 12"

How compensated for

By ring 7/8", 13/16" x 7 1/2"

Number of furnaces in boiler

2

Diameter of furnaces

3' 2"

Length of furnaces

7' 3"

Thickness of furnace plates

1/2"

Description of joint of furnaces

Double buttstrap, single riv.

Whether strengthened with rings

No

Greatest length between rings

Thickness of combustion chamber plating

1/2"

Diameter of screw stays to ditto

1 1/16"

pitch of stays

7 1/2" x 8 1/2"

End plates, thickness

5/8"

Diameter of longitudinal stays to end plates

2 1/4"

pitch of ditto

15 1/2" x 11 1/2"

How stays are secured

By double nuts & washers

Diameter of tubes

3 1/4"

pitch of tubes

4 1/2" x 4 1/2"

Thickness of tube plates

5/8"

Stayed by

Solid stays

pitch of stays 13 1/2" x 13 1/2", dia. 2 1/4"

Description of steam receiver

Vertical steamchest

Diameter of ditto

4' 0"

length of ditto

6' 0"

Thickness of plating of ditto

1/2"

ends

top 3/4", bottom 5/8"

Ends, how stayed

By four solid stays, dia. 2 1/4"

Working pressure of Mainshell 654 p. sq. inch.

Furnace flue 814 " " "

Main stays 1114 " " "

Combustion Chamber stays 83 " " "

Flat plates 724 " " "

M. Keydell

Engineer-Surveyor to Lloyd's Register of Shipping.