

IRON 471-0371 (1/2)

20746 Jan.

Port

Liverpool

1878

Details of Main Boilers of the Steam Ship

Plantaganet 535 tons

Diameter

12' 8"

Length

9' 3"

Thickness of shell plates

 $\frac{15}{16}$ "

Description of riveting of longitudinal joints

{ Double butt straps
- double riveted

of circumferential joints

Double riveted laps

Pitch of rivets

ditto

3 7/8"

ditto

3 1/4"

Diameter of rivets

ditto

1 7/8"

ditto

1 1/8"

Gap of plating

ditto

Butt straps 13 1/2" wide x 1/8" thick

ditto

6 1/2"

Size of manholes in circular shell

16" x 13"

How compensated for

Angle iron ring

Number of furnaces in boiler

Three

Diameter of furnaces

3' 0"

Length of furnaces

5' 9"

Thickness of furnace plates

7/16" top 3/8" bottoms

Description of joint of furnaces

Welded

Whether strengthened with rings

No

Greatest length between rings

—

Thickness of combustion chamber plating

7/16"

Diameter of screw stays to ditto

1 1/8"

pitch of stays

8" x 8 1/2"

End plates, thickness

5" back 3 1/4" front

Diameter of longitudinal stays to end plates

2 1/8"

pitch of ditto

16" x 15"

How stays are secured

Double nuts and washers

Diameter of tubes

3 1/4"

pitch of tubes

4 3/8"

Thickness of tube plates

10/16"

Stayed by

Tube stays

pitch of stays

13 1/8" x 8 3/4"

Description of steam receiver

Cylindrical horizontal, egg ended

Diameter of ditto

3' 0"

length of ditto

10' 9"

Thickness of plating of ditto

7/16"

ends

9"

Ends, how stayed

Girth stays

Top of combustion chamber stayed with
bridge stays and bolts.

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S.S. "Plantaganet"

Shell plating,

$$\frac{51520 \times 1.87 \times .72}{152 \times 6.0} \} = 75 \text{ lbs}$$

Perctⁿ of stgth
of rivets.

$$\frac{(.886 \times 4) \times 100}{3.87 \times .937} \} = 97\%$$

Perctⁿ of stgth
of plates in joints

$$\frac{(3.87 - 1.06) \times 100}{3.87} \} = 72\%$$

Furnaces,

$$\frac{89600 \times .191}{5.75 \times 36} \} = 82 \text{ lbs.}$$

Flat plates,

$$\frac{120 \times 49}{72.2} \} = 81 \text{ lbs.}$$

Steam Chest,

$$\frac{51520 \times .875 \times .60}{36 \times 6.5} \} = 119 \text{ lbs.}$$

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