

17057 Lin

Rec 21/9/76

Port Sunderland July 27th 1876of Main Boilers of the Steam Ship Shornbrough 460.31 tons

13'.. 3" Mean

Length

9'.. 4 1/2"

Thickness of shell plates

1 3/32

Description of riveting of longitudinal joints

Double chain

of circumferential joints

Chain

Pitch of rivets

ditto

3 3/4

ditto

3 3/8

Diameter of rivets

ditto

1 1/8

ditto

1 1/8

Lap of plating

ditto

Double Straps 13 1/2 broad

ditto

6"

Size of manholes in circular shell

Nine Hole in flat end of boiler

How compensated for

"

Number of furnaces in boiler

3

Diameter of furnaces

3" inside

Length of furnaces

7'.. 0"

Thickness of furnace plates

1/2"

Description of joint of furnaces

Single Butt straps

Double riveted

Whether strengthened with rings

No

Greatest length between rings

"

Thickness of combustion chamber plating

1/2

Diameter of screw stays to ditto

1 3/8 over thread

pitch of stays

9 x 9

End plates, thickness

3/4

Diameter of longitudinal stays to end plates

2 1/4 effective

pitch of ditto

15 x 14 1/2

How stays are secured

Secured to end plates with nuts inside & out

Diameter of tubes

3 1/2 outside

pitch of tubes

4 3/4 x 4 3/4

Thickness of tube plates

3/4"

Stayed by

Solid stays 2 1/8 dia

pitch of stays

14 1/4 x 14 1/4

Description of steam receiver

Annular Superheater

Diameter of ditto

Inside 4'.. 0 Outside 6'.. 6"

length of ditto

4'.. 6"

Thickness of plating of ditto

Inside 1/2 outside 5/8

ends

5/8"

Ends, how stayed

No stays.

Superheater double riveted longitudinally

and single riveted in the circumference. Diameter of rivets

in outside shell 5/8. pitch 3 1/4. Inside shell rivets 1/2

pitch 2 3/4. Lap joints. Stays between inside and

outside shell of superheater 1 3/8 dia over thread.

pitch 18 x 20 3/8

James Blair

Engineer Surveyor to Lloyd's Register of Shipping.

IRON 468-0245

Shell

$$\frac{51520 \times 2\frac{3}{16} \times .70}{159 \times 6.5} = 76.2$$

Turnaces

$$\frac{89600 \times \frac{1}{2}^2}{7 \times 36} = 88.8 \text{ lbs}$$

Flat plates between stays. $\frac{100 \times 8^2}{9 \times 9} = 79 \text{ lbs}$ "

Strain on sq. in. of section of stays & ends of tubes 415.

James Rankin



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