

16517 Iron

Port

Glasgow

10th June

Rec 15/6/96

1876

Details of Main Boilers of the Steam Ship

"Wakatipu" 1157

tons

Length 11' 5 1/4"

Length

9' 0"

Thickness of shell plates

12"
16

Description of riveting of longitudinal joints

Lapped & double riveted

Description of riveting of circumferential joints

Single riveted

Pitch of rivets

ditto

3 3/4"

ditto

3 1/4"

Diameter of rivets

ditto

1"

ditto

1"

Lap of plating

ditto

6 1/2"

ditto

3 1/2"

Size of manholes in circular shell

16" x 12"

How compensated for

by doubling plate

Number of furnaces in boiler

Two

Diameter of furnaces

3' x 3'

Length of furnaces

6' 0"

Thickness of furnace plates

9/16"

Description of joint of furnaces

Double butt strapped

Whether strengthened with rings

None

Greatest length between rings

Thickness of combustion chamber plating

9/16"

Diameter of screw stays to ditto

1 3/8"

pitch of stays

9" x 8 1/2"

End plates, thickness

10"
16

Diameter of longitudinal stays to end plates

2"

pitch of ditto

16" x 16"

How stays are secured

by double nuts

Diameter of tubes

3 1/8"

pitch of tubes

4 1/4"

Thickness of tube plates

11"
16

Stayed by

Ribs screwed & fitted with double nuts

pitch of stays

15 1/2" x 15 1/2"

Description of steam receiver

Round Annular with single stay

Diameter of ditto

8' 6" dia 5' 6"

height of ditto

4' 6"

Thickness of plating of ditto

10"
16

ends

12"
16

ends, how stayed

To angles round shell & tube

Donkey Boiler 8 ft high x 4' 0" long x 4' 4" wide. Shell plate 9/16". Tube plates 7/16".

Engineer Surveyor to Lloyd's Register of Shipping.

IRON 467-0021

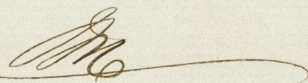
16517 Iron.

$$\text{Formula for Shell} \quad \frac{0.7520 \times 1.5 \times 43\%}{135 \times 6.5} = 64 \text{ lbs}$$

$$\text{Formula for Flat plate} \quad \frac{100 \times 64}{46.5} = 86 \text{ lbs}$$

$$\text{Formula for Stues} \quad \frac{89600 \times .25}{6' \times 39"} = 95 \text{ lbs}$$

$$\text{Longitudinal Stay, 2" dia. 16' x 16" pitch} = 4881 \text{ lbs}$$

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