

19585 2mm

Port

of Newcastle Oct 17th

787

Details of Main Boilers of the Steam Ship

"Cambroune" 525.46 tons

Diameter

13' 0"

Length

10' 6"

Thickness of shell plates

 $\frac{15}{16}$ "

Description of riveting of longitudinal joints

double lap chain

of circumferential joints

double lap chain

Pitch of rivets

ditto

 $3\frac{7}{8}$ "

ditto

 $3\frac{7}{8}$ "

Diameter of rivets

ditto

 $1\frac{1}{4}$ "

ditto

 $1\frac{1}{4}$ "

Gap of plating

ditto

 $6\frac{1}{4}$ "

ditto

 $6\frac{1}{4}$ "

Size of manholes in circular shell

 15×13 "

How compensated for

wrought iron plate $7 \times \frac{15}{16}$ double riveted

Number of furnaces in boiler

(13)

Diameter of furnaces

3' 0"

Length of furnaces

7' 6"

Thickness of furnace plates

 $\frac{15}{32}$ "

Description of joint of furnaces

double butt single riveted

Whether strengthened with rings

half ring on bottom

Greatest length between rings

—

Thickness of combustion chamber plating

 $\frac{1}{2}$ "

Diameter of screw stays to ditto

 $1\frac{1}{8}$ "

pitch of stays

 $8\frac{1}{2} \times 8\frac{1}{2}$ "

End plates, thickness

 $\frac{1}{16}$ "

Diameter of longitudinal stays to end plates

2"

pitch of ditto

 15×15 "

How stays are secured

double nuts & washers $7 \times \frac{1}{2}$ "

Diameter of tubes

 $3\frac{1}{2}$ "

pitch of tubes

 5×5 "

Thickness of tube plates

 $\frac{3}{4}$ "

Stayed by

tube stays

pitch of stays

 15×10 "

Description of steam receiver

horizontal cylindrical

Diameter of ditto

4' 9"

length of ditto

7' 0"

Thickness of plating of ditto

 $\frac{1}{2}$ "

ends

 $\frac{3}{4}$ "

Ends, how stayed

by (19) $2\frac{1}{4}$ " stays secured by double nuts & washers

Working pressure

Cylindrical Shell,

 $\frac{51520 \times 1.87 \times 66}{156 \times 6.15} = 63.2 \text{ lb}$

Ditto

Furnace Flue,

 $\frac{89600 \times .25}{36 \times 7.5} = 82 \text{ lb}$

Ditto

Main Stays Steam Space,

 $\frac{36 \times 7.5}{15 \times 15 \times 65} = 4719 \text{ lb}$

Ditto

Combustion Chamber Stays,

 $\frac{3.1}{8.5 \times 8.5 \times 65} = 4743 \text{ lb}$

Ditto

Flat surfaces Main Stays,

 $\frac{.99}{120 \times 121} = 64.4 \text{ lb}$

Ditto

Ditto Combustion Chamber,

 $\frac{225}{100 \times 64} = 88.6 \text{ lb}$

G. W. Mammul

Engineer Surveyor to Lloyd's Register of Shipping.

North Shields

Smallest space between Boetus and Buntius 8"
Y.N.M.

W. H. Buntius



© 2019

Lloyd's Register
Foundation