

19960 *En*

Port

*Sunderland**January*

1878

s of Main Boilers of the Steam Ship

*"Lutetia"*

515.9 tons

10.6

Length

10.5

ss of shell plates

 $\frac{13}{16}$ 

ion of riveting of longitudinal joints

*double*

of circumferential joints

*double*

n of rivets

ditto

 $4\frac{1}{4}$ 

ditto

 $3\frac{3}{4}$ 

meter of rivets

ditto

 $1\frac{1}{4}$ 

ditto

 $1\frac{1}{8}$ 

of plating

ditto

6

ditto

6

e of manholes in circular shell

 $15\frac{1}{2} \times 12$ 

ow compensated for

*by the flange of the dome.  $4\frac{1}{2} \times \frac{9}{16}$* 

umber of furnaces in boiler

2

iameter of furnaces

3.0

Length of furnaces

7.6

hickness of furnace plates

 $\frac{1}{2} \times \frac{9}{16}$  bottom

escription of joint of furnaces

*lapped and double riveted*

Whether strengthened with rings

*none*

Greatest length between rings

hickness of combustion chamber plating

 $\frac{1}{2}$  inch

Diameter of screw stays to ditto

 $1\frac{1}{4}$ 

pitch of stays

 $8 \times 8$ 

End plates, thickness

 $\frac{3}{4}$ 

Diameter of longitudinal stays to end plates

2

pitch of ditto

 $15 \times 15$ 

How stays are secured

*they are bolts extending through both ends*

Diameter of tubes

 $3\frac{3}{4}$  external

pitch of tubes

 $5 \times 5$ 

Thickness of tube plates

 $\frac{3}{4}$ 

red by

*stay bolts  $1\frac{3}{4}$  diameter*

pitch of stays

 $15 \times 15$ 

escription of steam receiver

*dome with contracted neck*

iameter of ditto

3.6

length of ditto

8.0

ekness of plating of ditto

 $\frac{3}{8}$ 

ends

 $\frac{1}{2}$ 

s, how stayed

*no stay the ends are dished 3.6 radius*

$$\text{Shell} = \frac{51520 \times 1\frac{1}{8} \times 70}{126 \times 6.5} = 71 \text{ lbs working pressure.}$$

$$\text{Furnace} = \frac{89600 \times 1\frac{1}{2}}{7\frac{1}{2} \times 36} = 82 \text{ " " " "}$$

*William Allison*

Engineer Surveyor to Lloyd's Register of Shipping