

198909

Port Newcastle

15th Dec 31/12/77
1877

Details of Main Boilers of the Steam Ship

"Indus"

1236.24 tons

Diameter 12.5 Length 10.6
 Thickness of shell plates $\frac{7}{8}$
 Description of riveting of longitudinal joints Lap, Treble of circumferential joints Lap, Double
 Pitch of rivets ditto $3\frac{3}{4}$ ditto $3\frac{3}{8}$
 Diameter of rivets ditto $1\frac{1}{16}$ ditto $1\frac{1}{16}$
 Lap of plating ditto 7 ditto $5\frac{1}{8}$
 Size of manholes in circular shell 12 x 15
 How compensated for Wrought Iron plate
 Number of furnaces in boiler 3
 Diameter of furnaces 2.10 Length of furnaces 8.0
 Thickness of furnace plates $\frac{1}{2}$
 Description of joint of furnaces Double Butt straps
 Whether strengthened with rings No Greatest length between rings ✓
 Thickness of combustion chamber plating $\frac{7}{16}$
 Diameter of screw stays to ditto $1\frac{3}{16}$ pitch of stays 8 x 8 $\frac{1}{8}$
 End plates, thickness $\frac{3}{4}$ at steam space, $\frac{1}{2}$ below
 Diameter of longitudinal stays to end plates 2" pitch of ditto 15 x 12
 How stays are secured Double into washers
 Diameter of tubes $3\frac{1}{2}$ pitch of tubes $4\frac{3}{4} \times 4\frac{3}{4}$
 Thickness of tube plates $\frac{5}{8}$
 Stayed by Solid stays 2" dia pitch of stays 14 x 14 $\frac{1}{4}$
 Description of steam receiver Cylindrical Horizontal
 Diameter of ditto 3.6 length of ditto 7.3
 Thickness of plating of ditto $\frac{3}{8}$ ends $\frac{7}{16}$

Ends, how stayed (6) stays $1\frac{1}{2}$ dia.

$$\text{Shell } \frac{57520 \times 1.75 \times 72}{149 \times 6.5} = 67 \text{ lb.}$$

$$\text{Flat plates (ends) } \frac{120 \times 14 \times 7}{256} = 67 \text{ lb.}$$

$$\text{Furnaces } \frac{89600 \times 2.5}{8.0 \times 34} = 88 \text{ lb.}$$

$$\text{Comb. Cham. } \frac{100 \times 49}{64} = 76 \text{ lb.}$$

$$\text{Main stay } \frac{16 \times 12 \times 65}{3.1} = 395 \text{ lb.}$$

$$\text{Screw Stays } \frac{8 \times 8 \times 65}{1.1} = 378 \text{ lb.}$$