

19717 En

Port Newcastle Nov 23<sup>rd</sup> 1877  
Jenny Otto. 94.67 tons

## Details of Main Boilers of the Steam Ship

Diameter 11.9

Length

10.6

Thickness of shell plates  $\frac{1}{8}$ 

Description of riveting of longitudinal joints D.B.S.

of circumferential joints Lap. D.

Pitch of rivets ditto  $4\frac{1}{8}$ ditto  $4\frac{1}{8}$ Diameter of rivets ditto  $1\frac{1}{6}$ ditto  $1\frac{1}{6}$ Lap of plating ditto  $9" \times \frac{9}{16}$ 

ditto 5

Size of manholes in circular shell none

How compensated for

Number of furnaces in boiler 3.

Diameter of furnaces 3.0

Length of furnaces 7.6

Thickness of furnace plates  $\frac{1}{2}$ 

Description of joint of furnaces D. B. S.

Whether strengthened with rings no

Greatest length between rings

Thickness of combustion chamber plating  $\frac{9}{16}$ Diameter of screw stays to ditto  $1\frac{1}{2}$  rivet hds. pitch of stays  $9\frac{1}{2} \times 9\frac{1}{2}$ End plates, thickness  $\frac{5}{8}$ Diameter of longitudinal stays to end plates 2" pitch of ditto  $16 \times 13$ 

How stays are secured Double nuts and washers

Diameter of tubes  $3\frac{3}{4}$  pitch of tubes  $4\frac{1}{2} \times 4\frac{1}{2}$ Thickness of tube plates  $\frac{5}{8}$ Stayed by stay tubes pitch of stays  $13\frac{1}{2} \times 13\frac{1}{2}$ 

Description of steam receiver Horizontal Cylindrical

Diameter of ditto 4.0 length of ditto 10.12

Thickness of plating of ditto  $\frac{9}{16}$  ends  $\frac{9}{16}$  dishe

Ends, how stayed Three 2" stays, Double nuts &amp; washers

Shell.  $\frac{51520 \times 1\frac{1}{4} \times \frac{1}{4}}{141 \times 6.5} = 72 \text{ lbs.}$  Furnaces,  $\frac{89600 \times \frac{1}{4}}{7\frac{1}{2} \times 36} = 83 \text{ lbs.}$ Long stays.  $\frac{16 \times 13 \times 70}{3 \times 14} = 4630 \text{ lbs.}$  plates  $\frac{100 \times 120}{16 \times 16} = 47 \text{ lbs.} + \text{large washers}$ Screw stays. flat plates  $\frac{81 \times 100}{90} = 90 \text{ lbs.}$ 

G. W. Mammel &amp; James Mutton

Engineer Surveyors to Lloyd's Register of Shipping.

North Shields



Distance between bunkers and boilers

Top — 13 inches

Side 7 inches

Milton



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Foundation