

17254 Iron

Port *Sunderland* *Sept 1876*
415 tons

Details of Main Boilers of the Steam Ship

"Hartlepool"

Diameter *13.6*, Length *10.1*.

Thickness of shell plates *1/2*"

Description of riveting of longitudinal joints *double*, of circumferential joints *double*.

Pitch of rivets ditto *2 1/2*, ditto *2 1/2*.

Diameter of rivets ditto *3/4*", ditto *3/4*".

Lap of plating ditto *4 1/2*", ditto *4 1/4*".

Size of manholes in circular shell *15 x 11*".

How compensated for *by a ring 4" x 3/4"*

Number of furnaces in boiler *3*.

Diameter of furnaces *3.0*", Length of furnaces *7.2*".

Thickness of furnace plates *7/16*".

Description of joint of furnaces *lapped and single riveted*.

Whether strengthened with rings *none*. Greatest length between rings _____

Thickness of combustion chamber plating *7/16*".

Diameter of screw stays to ditto *1 1/8* over threads pitch of stays *9" x 9"*.

End plates, thickness *1/2*".

Diameter of longitudinal stays to end plates *1 1/2*" square pitch of ditto *18" x 16"*.

How stays are secured *round end of stay between 2 angle irons 5" x 3" x 1/2" x 1 3/8" pin through them.*

Diameter of tubes *3 1/2*" pitch of tubes *5" x 4 3/4"*.

Thickness of tube plates *1/16*".

Stayed by *stay tubes* pitch of stays *15" x 14 1/2"*.

Description of steam receiver *dome with a contracted neck.*

Diameter of ditto *3.9*" length of ditto *7.0*".

Thickness of plating of ditto *3/8*" ends *1/2*".

Ends, how stayed *No stays (ends are dished - 4ft radius)*

Port *Sunderland*, No. *11511*
Report (if any) on Hull of Vessel.

$$\text{Shells} = \frac{51520 \times 1 \times 70}{161 \times 6.5} = 36 \text{ lbs working pressure}$$

$$\text{Furnaces} = \frac{89600 \times 7/16^2}{76 \times 36} = 66 \text{ " " "}$$

