

Port West Hartlepool
Dalton

196972a-182
28 Nov 1871
Dec 10/12/71
1263.46 tons

Tails of Main Boilers of the Steam Ship

Diameter 11. $\frac{1}{34}$ Length 10. 1

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

Description of riveting of longitudinal joints Welded of circumferential joints Double

Pitch of rivets ditto ditto $3\frac{5}{16}$

Diameter of rivets ditto ditto 1.8

Lap of plating ditto ditto $5\frac{1}{4}$

Size of manholes in circular shell 15" x 11 $\frac{1}{2}$

How compensated for Rectangular plate 24 x 28 x 1 $\frac{1}{16}$

Number of furnaces in boiler Three

Diameter of furnaces 2. 9 $\frac{1}{2}$ Length of furnaces 6. 10 over tube plates

Thickness of furnace plates Bottom $\frac{1}{2}$ bottom $\frac{3}{16}$

Description of joint of furnaces Double butt straps. Single riveted

Whether strengthened with rings No Greatest length between rings ~

Thickness of combustion chamber plating $\frac{1}{2}$ "

Diameter of screw stays to ditto 1 $\frac{1}{2}$ over thread pitch of stays $\frac{1}{2}$ x $\frac{1}{4}$

End plates, thickness $\frac{13}{16}$

Diameter of longitudinal stays to end plates 2 $\frac{3}{8}$ over thread pitch of ditto 13 $\frac{1}{4}$ x 14 $\frac{1}{2}$ "

How stays are secured With nuts and washers

Diameter of tubes 3 $\frac{1}{2}$ pitch of tubes 4 $\frac{3}{4}$ x 4 $\frac{1}{8}$

Thickness of tube plates $\frac{13}{16}$

Stayed by Stay tubes pitch of stays 9 $\frac{1}{2}$ x 14 $\frac{1}{4}$

Description of steam receiver Steam dome. Contracted at neck

Diameter of ditto 3. 0 length of ditto 5. 0

Thickness of plating of ditto $\frac{1}{16}$ ends 58

Ends, how stayed Four stays in dome 2 $\frac{3}{8}$ dia over thread

All longitudinal seams in shell welded except of one

plate in inner course of plating.

Shell $\frac{51520 \times 1\frac{3}{4} \times \frac{1}{16}}{139\frac{3}{4} \times 6.5} = 40$ lbs working pressure

Flat plates between screwed } $\frac{100 \times 8^2}{\frac{1}{2}^2} = 114$ lbs

stays in combustion chamber

James Bain

Engineer Surveyor to Lloyd's Register of Shipping.