

18506. Iron.

Port of Newcastle May 2nd 1877
"Lombard" Dec 24/57 1122.20 tons

Details of Main Boilers of the Steam Ship

Diameter 12' 0" Length 10' 0"
Thickness of shell plates $\frac{13}{16}$ "
Description of riveting of longitudinal joints double riveted butt of circumferential joints double riveted lap $\frac{3}{8}$ "
Pitch of rivets ditto 4" ditto $3\frac{1}{8}$ "
Diameter of rivets ditto 1" ditto 1"
Lap of plating ditto Straps $10\frac{1}{4}$ " ditto 5"
Size of manholes in circular shell 15×12 "
How compensated for Mangrove iron ring $6 \times \frac{13}{16}$ "
Number of furnaces in boiler (3)
Diameter of furnaces 2' - $11\frac{1}{8}$ " Length of furnaces 7' 0" + 8' 11" bottoms
Thickness of furnace plates $\frac{1}{2}$ "
Description of joint of furnaces single riveted butt,
Whether strengthened with rings none Greatest length between rings none
Thickness of combustion chamber plating $\frac{1}{16}$ "
Diameter of screw stays to ditto $1\frac{1}{4}$ " pitch of stays $8\frac{1}{4} \times 8\frac{1}{4}$ "
End plates, thickness $\frac{11}{16}$ "
Diameter of longitudinal stays to end plates $2\frac{3}{8}$ " pitch of ditto 14×18 "
How stays are secured by double nuts and riveted washers (pitch reduced to 15")
Diameter of tubes $3\frac{1}{2}$ " pitch of tubes $4\frac{3}{4} \times 4\frac{3}{4}$ "
Thickness of tube plates $\frac{11}{16}$ "
Stayed by tube stays pitch of stays $14\frac{1}{4} \times 9\frac{1}{2}$ "
Description of steam receiver horizontal cylinder about half in uptake
Diameter of ditto 4' 0" length of ditto 13' 0"
Thickness of plating of ditto $\frac{3}{8}$ " ends $\frac{9}{16}$ "

How stayed (3) Stays, $1\frac{3}{4}$ " dia,
Working pressure Cylindrical Shell, $51520 \times 1.62 \times 45 = 66 \text{ lbs}$
Ditto " Furnace Shell, $144 \times 6.5 = 90 \text{ lbs}$
Ditto " Main Stays, $89600 \times .25 = 5040 \text{ lbs}$
Ditto " Combustion Chamber Stays, $36 \times 8.9 = 3204 \text{ lbs}$
Ditto " Flat plates Main Stays, $14 \times 18 \times 70 = 3906 \text{ lbs}$
Ditto " Combustion Chambers ditto, $3.5 \times 8\frac{1}{4} \times 70 = 3906 \text{ lbs}$
Ditto " Flat plates Main Stays, $120 \times 121 = 64.5 \text{ lbs}$
Ditto " Combustion Chambers ditto, $225 \times 100 \times 49 = 72 \text{ lbs}$
68

George W. Manuel

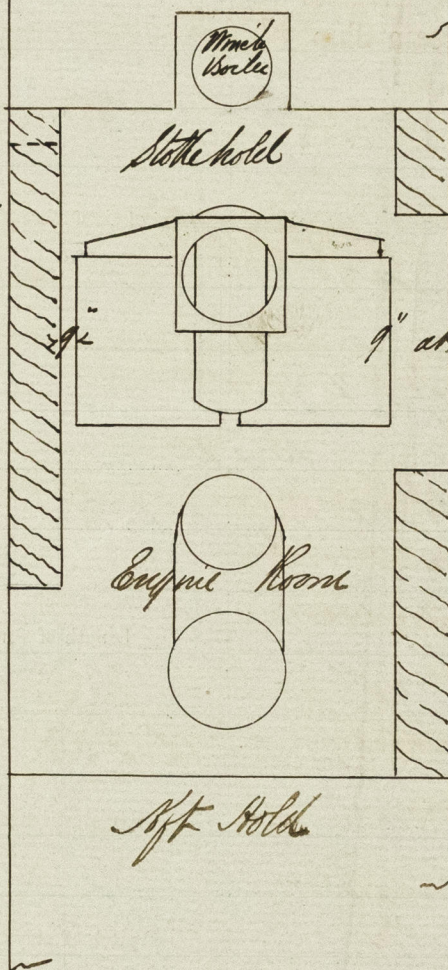
Engineer Surveyor to Lloyd's Register of Shipping.

North Shields

18506 Jan.

Main Hold

Arrangement of
Boilers and Bunkers
smallest space between
Boilers and Bunkers
9" in



S. W. M.



© 2019

Lloyd's Register
Foundation