

S. S. Corea 15357 Iron Re 12/11/75.

Size and Description of Boiler

One, Round, Horizontal, 11'3" dia x 9'9" long. with 3  
Lurnaces fired from forward and Dome  
Working pressure 40 lbs

Shell plating  $\frac{1}{16}$ " (B. Boiler) 4 plates in the circumference and 3 widths  
in the length, circumferential joints lapped, single riveted,  
rivets 1" dia. x 3" pitch, Longitudinal joints have double butt  
straps  $\frac{1}{16}$ " x 12" broad, double riveted rivets 1" dia x  $3\frac{1}{2}$ " pitch  
End plating flanged and single riveted. Manholes have  
rings fitted round them.

$$\text{Formula } \frac{51320 \times 1.75 \times \frac{1}{16}}{133.25 \times 6.5} = 74.7 \text{ lbs}$$

Combustion Chamber plating  $\frac{1}{16}$ " (Bowling) the top is radial.  
Screw Stays  $1\frac{1}{4}$ " dia = 1.22" sect. area. 8" x 8" pitch = 3409 lbs.  
per inch.

$$\text{Formula for flat plates } \frac{100 \times 49}{64} = 76.5 \text{ lbs}$$

Lurnaces 6'6" long x 2'10" dia. Crown plates  $\frac{1}{16}$ " (Bowling) bottom  
plates  $\frac{1}{16}$ " (B. Clydesdale) butt joints, fitted with double straps, and  
flanged round mouths. No anticollapsing rings

$$\text{Formula for tubes } \frac{89600 \times 0.22}{6.5 \times 34} = 89.2 \text{ lbs}$$

Lube plates  $\frac{1}{16}$ " protected by 63 tubes  $3\frac{1}{4}$ " dia. 9 of which are  
stay tubes, screwed & fitted with nuts, and 60 in Centre Chamber  
9 of which are stays.

Longitudinal Stays 2" dia. = 3.14" sect. area. 16" x 15 $\frac{1}{2}$ " pitch  
=  $\frac{5528}{5000}$  lbs per inch.

Dome 3'6" dia. x 5'3" high. Side plating  $\frac{1}{16}$ " and top  $\frac{1}{16}$ " flanged  
and single riveted to boiler. There are 3 stays fitted from shell  
of boiler to top of dome 2" dia (with double nuts), also 4 angles  
supporting shell under dome  $3\frac{1}{2}$ " x  $3\frac{1}{2}$ " x  $\frac{1}{2}$ ".

James Morrison  
Greenock Nov. 9th 1875  
Lloyd's Register  
Foundation