

Mult: Steel Boiler by Mess Ross & Duncan for a
Steam Trawler No 40 by Mess Rison & Co of Maryport.

140 lbs working pressure

plate % $\frac{6.345 - .2345}{6.345} \times 100 = 85.8$ End top $\frac{185 \times 14.5^2}{15^2} = 144 \text{ lbs.}$

Rivet % $\frac{5 \times 69 \times 1.75 \times 84}{6.345 \times .2345} = 86$

Shell $\frac{27 \times 85.5 \times (15 - 2)}{130} = 144 \text{ lbs.}$ Stays $\frac{4.22 \times 10000}{15^2} = 184 \text{ lbs.}$
Front tube $\frac{140 \times (11.5 + \frac{1}{2})^2}{14^2} = 218 \text{ lbs.}$

Shmae $\frac{50(300 \times 75 - 74)}{41} = 184 \text{ lbs.}$ Back $\frac{140 \times 11^2}{9.8^2} = 168 \text{ lbs.}$

Combustion $\frac{135 \times 9^2}{8^2} = 141 \text{ lbs.}$ Stay $\frac{2500(3.67 - 5.41)}{11.345 \times 8.341 - 18} = 218 \text{ lbs.}$

Stays $\frac{48 \times 8000}{8^2} = 185 \text{ lbs.}$ Boiler Back $\frac{135 \times (10 + \frac{1}{2})^2}{18.4^2} = 143 \text{ lbs.}$

Girders $\frac{9000 \times 7^2 \times 2.5}{(37 - 8) 8 \times 37} = 193 \text{ lbs.}$ Stays $\frac{207 \times 9000}{11 \times 8} = 212 \text{ lbs.}$

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W.L.H.
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