

Mult^{1/2} Steel Donkey Boiler (No. 8. 1291) by Scott's Ironing Co.
for their No. 407.

100 lbs Working pressure.

plate % $\frac{4.3125 - .875}{4.3125} \times 100 = 79.4$.

ends top $\frac{185 \times 11^2}{14^2} = 115 \text{ lbs.}$

Rivet % $\frac{4 \times 6 \times 85}{4.31 \times 593} = 80$.

" Stays $\frac{283 \times 10000}{14^2} = 104 \text{ lbs.}$

shell $\frac{28}{24} \cdot \frac{19.5 \times 49(95-21)}{120} = 100 \text{ lbs.}$

Front tube $\frac{140 \times (11 + \frac{8}{2})^2}{14.5^2} = 149 \text{ lbs.}$

Furnace $\frac{1075200 \times .8625^2}{82 \times 34.5} = 111 \text{ lbs.}$

Back " $\frac{140 \times 11^2}{12.45^2} = 104 \text{ lbs.}$

comb^{1/2} ch^{1/2} $\frac{120 \times 8^2}{44.4} = 103 \text{ lbs.}$

Boiler Head $\frac{135 \times 11^2}{14.6} = 111 \text{ lbs.}$

" Stays $\frac{963 \times 8000}{44} = 104 \text{ lbs.}$

" Stays $\frac{1.448 \times 8000}{11.75 \times 9} = 114 \text{ lbs.}$

Grinders $\frac{9900 \times 8.125^2 \times 1.5}{(27.5-8) \times 24.5} = 104 \text{ lbs.}$

W.K.H. 16 Nov 1908

Lloyd's Register
Foundation

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