

Mult^l Steel Donkey Boiler No. 24, to be made by Mess
Rankin & Blackmore for Mess Russell 163 No 548.

100 lbs Working pressure.

plate % $\frac{4.1845 - .75}{4.1845} \times 100 = 82.1$

Rivet % $\frac{3 \times 4.4 \times 1.48 \times 85}{4.1845 \times .8625} = 85$

Shell $\frac{72 \times 82.1 (9-2)}{126} = 100 \text{ lbs}$

Furnace $\frac{1045200 \times .531}{73 \times 34.9} = 109 \text{ lbs}$

Combr^l Lion $\frac{120 \times 8.5^2}{9^2} = 104 \text{ lbs}$

" " Back $\frac{135 \times 9^2}{10^2} = 109.5 \text{ lbs}$

" " Stays $\frac{1.23 \times 8000}{9^2} = 121 \text{ lbs}$

" " Girders $\frac{10660 \times 4^2 \times 1}{(28-9) \times 9 \times 28} = 109 \text{ lbs}$

" " Back Stays $\frac{1.44 \times 8000}{10^2} = 118 \text{ lbs}$

Ends. $\frac{\frac{145+130}{2} \times 14^2}{18^2+15^2} = 109 \text{ lbs}$

" Stays $\frac{3.43 \times 10400}{18 \times 18} = 132 \text{ lbs}$

Front tube $\frac{140 (11+\frac{8}{2})^2}{14.25^2} = 155 \text{ lbs}$

Back " $\frac{140 \times 12^2}{14.25^2} = 100 \text{ lbs}$

Boiler Back $\frac{135 \times 9^2}{10^2} = 109 \text{ lbs}$

" Stays $\frac{1.45 \times 8000}{14 \times 10} = 100 \text{ lbs}$



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W.R. 16th Dec 1904.

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