

Mull^r Steel Donkey Boiler by Mess. Rankin &
Blackmore for Mess Russell & Co N^o 514 Vessel.

100 lbs. ¹⁰ working pressure

plate 7/8 $\frac{4.25 - 1}{4.25} \times 100 = 76.4$

Rivet 7/8 $\frac{3 \times 4854 \times 85}{4.25 \times 593} = 49.$

Shell $\frac{29}{24} \cdot \frac{19.5 \times 76.4 (9.5 - 2)}{120} = 100 \text{ lbs.}$

Sumace $\frac{1045200 \times .5^2}{69 \times 36} = 108$

Corner br. $\frac{135 \times 9^2}{102} = 104 \text{ lbs.}$

" Stays $\frac{1.227 \times 8000}{98} = 101 \text{ lbs.}$

" Sides $\frac{170 \times 4.5^2}{60} = 112 \text{ lbs.}$

" Stays $\frac{994 \times 8000}{60} = 132 \text{ lbs.}$

Ends $\frac{9900 \times 4^2 \times 1.25}{14.3 \times 11.5 \times 25.8} = 118 \text{ lbs.}$

Gridd top $\frac{14.5 \times 14^2}{339} = 101 \text{ lbs.}$

" Stays $\frac{3.43 \times 10000}{334} = 102 \text{ lbs.}$

" plates between stays $\frac{154 \times 14^2}{270} = 113 \text{ lbs.}$

Front tubes $\frac{140 \times 11^2}{13} = 100 \text{ lbs.}$

Back -

" in nest $\frac{140 \times 11^2}{11.45} = 123 \text{ lbs.}$

Boiler back $\frac{135 \times 9^2}{64.1} = 163 \text{ lbs.}$

" Stays $\frac{175 \times 8000}{13.45 \times 7.845} = 129 \text{ lbs.}$

W.R.K.
19 Oct. 1903.

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Foundation

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