

Mult^l Steel main Boilers (S. 424) by Clyde Iron Works Co. Ltd. for
A. Rodger & Co. Ltd. 404 vessel.

160 lbs. "working pressure."

plate % $\frac{8.3125 - 1.1875}{8.3125} \times 100 = 85.7$

Ends top $\frac{14.5 \times 14^2}{312} = 162 \text{ lbs.}$

Rivet % $\frac{5 \times 1.11 \times 1.75 \times 85}{8.3125 \times 1.156} = 85.8$

Stays $\frac{5.27 \times 10000}{14 \times 16.25} = 171 \text{ lbs.}$
~~4.74~~ ~~16.25~~

Shell $\frac{22 \times 85.7 (18.5 - 2)}{192} = 162 \text{ lbs.}$

Front tube $\frac{140 \times 14^2}{16.25^2} = 199 \text{ lbs.}$

Furnace $\frac{125.9 (8.5 - 2)}{50.5} = 162 \text{ lbs.}$

Back $\frac{140 \times 12^2}{16.25^2} = 168 \text{ lbs.}$

Comb^l BW^l $\frac{135 \times 9.5^2}{42} = 169 \text{ lbs.}$
Stays top

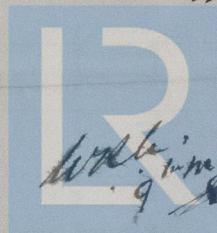
Boiler Back $\frac{135 \times 12.5^2}{128} = 167 \text{ lbs.}$

" " Stays $\frac{1.48 \times 8000}{42} = 164 \text{ lbs.}$

" " Stays $\frac{2.04 \times 9000}{11.06 \times 4.45} = 214 \text{ lbs.}$

" " Back $\frac{135 \times 9^2}{66} = 165 \text{ lbs.}$

" " Girders $\frac{16660}{(36-8) 9 \times 36} = 163 \text{ lbs.}$



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