

Creditto Steel Boiler by Riley Bros of Jackson for
Messrs Furness, Withy & Co. N° 2264

100 lbs working pressure

Plate $\frac{3 - .9375}{3} \times 100 = 68.7$

Front tube $\frac{150 \times (10 + \frac{10}{2})^2}{18.5^2} = 99 \text{ lbs.}$

Rust $\frac{2 \times .69 \times 85}{3 \times .5625} = 70$

Back - $\frac{140 \times 10^2}{11.5^2} = 105 \text{ lbs.}$

Shell $\frac{18.5 \times 68.7 (9-2)}{84} = 105 \text{ lbs.}$

Stay tubes $\frac{7500 (7.67 - 5.41)}{15.625 \times 10.5 - 33} = 129 \text{ lbs.}$

Fire Box $\frac{89600 \times .729^2}{3 \times 64} = 241 \text{ lbs.}$

Side plate $\frac{18.5 \times 11^2}{15^2} = 100 \text{ lbs.}$

- - $\frac{8800 \times 23}{64 \times 32} = 99 \text{ lbs.}$

- Stays $\frac{9000 \times 3.14}{26.5 \times 10.5} = 102 \text{ lbs.}$

Combustor $\frac{135 \times 9^2}{9.5^2} = 121 \text{ lbs.}$

Shell crown

- - Stays $\frac{1.23 \times \frac{8000}{6000}}{9.5^2} = \frac{109}{81} \text{ lbs.}$

$\frac{18.5 \times 49 \times (9-2)}{42} = 150 \text{ lbs.}$

- - top $\frac{120 \times 7.5^2}{8^2} = 105 \text{ lbs.}$

Girders $\frac{9900 \times 5.75^2 \times 1.25}{(27-8) 8 \times 27} = 100 \text{ lbs.}$

W.L.H.
14 March 1896

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HPL378-0105

7' 0" inside