

Main Boiler to be made by Messrs M. Gray & Co. Ltd.
 Central Marine Engine Works, West Barkepool
 to the order of Messrs Westgarth, English & Co.
 for Sir Raylton Dixon & Co. N^o 515 Vessel.

Plate $\frac{4.45 - 1.25}{4.45} \times 100 = 83.8\%$ Contr. $\frac{120 \times 81}{4.45^2} = 161 \text{ lbs}$
 Rivets $\frac{5 \times 1.23 \times 1.75 \times 85}{4.45 \times 13125} = 89\%$ " " Stays $\frac{1.23 \times 8000}{4.45^2} = 163 \text{ lbs}$
 Shell $\frac{260 \times 83.8 \times 13125}{174} = 164.3 \text{ lbs}$ Gun Stays $\frac{9000 \times 9^2 \times 1.75}{(33-8) \times 33} = 19 \text{ lbs}$
 Top End. $\frac{140 \times 256}{210.25} = 170 \text{ lbs}$

Stays in dish $\frac{3.98 \times 900}{14.5 \times 14.5} = 170 \text{ lbs}$
 Boiler Back $\frac{120 \times 144}{100} = 172.8 \text{ lbs}$
 Furnaces $\frac{1000 \times (8.75 - 2)}{4.5} = 150 \text{ lbs}$

Front tube plate = $\left\{ \begin{array}{l} \frac{140 \times 12^2}{14.5^2} = 95.8 \\ \frac{140 \times 10^2}{14.5^2} = 66.6 \end{array} \right.$
 $161 + 8 \text{ lbs} \text{ m.a.}$

Wm. Austin
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