

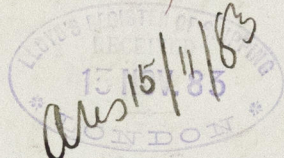
 STEPHENS & MAWSON.

Telegraphic Address.
"MAWSON-NEWCASTLE."

Stephens, Mawson & Goss.
NEWPORT, MON.

Newcastle on Tyne.

Nov 12th 1883



Messrs Lloyd's Surveyors
Lloyd's Office
London -

Dear Sir

Re the boiler now
building by Messrs Wallace &
Co of Glasgow for our S.S.
"Cassia" we find that the
shell according to your rules
is not sufficient for the pressure
specified 80 lbs.

The boiler is 16'6" mean dia.
Plates $\frac{3}{8}$ " thick - $1\frac{1}{4}$ " rivets $\times 5\frac{1}{2}$ "
pitch

$$\frac{3 \times 1.227 \times 85}{5.5 \times .843} = 67\%$$

$$\frac{240 \times .843 \times 67}{1.98} = 68 \text{ lbs.}$$

a reply will oblige

Yours faithfully
Stephens & Mawson
Per Mr. J -



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LRH301-0201

13/11/83

to Parker to
report *P. M.* W.D.

It is submitted that Messrs
Stephens & Mawson be
informed that they are in
error as to the riveting of this
boiler, they having taken 3 rows
of rivets in their calculation whereas
there are 4 rows in the boiler itself
which brings the strength of the
rivets above that req^d by the Rules

M 15/11/83 *M* W.D.



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