

Lloyd's Register of British  
and Foreign Shipping,  
Newcastle

October 6 1898.

The Surveyors,

Leith

Gentlemen,

Herewith we forward particulars  
of donkey boiler for S.S. No 161. *Muffs.*

*Ramage & Ferguson*  
as requested in your letter of yesterday

We are,

Yours faithfully,

*G. L. Hindmarsh*

MARK ON BOILER:

No. 5343

LLOYD'S TEST,

150 lbs.

*G.L.F. 15.8.98*

## DONKEY BOILER.

Description *Vertical Type patent*  
Made at *Gateshead* By whom made *Robert Schapman & Co*  
When made *15.8.98* Where fixed .....  
Working pressure *75 lbs.* tested by hydraulic pressure to *150 lbs.*  
No. of Certificate *5343* Fire grate area ..... Description of safety  
valves ..... No. of safety valves ..... Area of each .....  
Pressure to which they are adjusted ..... If fitted with easing gear .....  
If steam from main boilers can enter the donkey boiler ..... Dia. of donkey  
boiler *5'-9"* Length *13 ft* Material of shell plates *Steel*  
Thickness  *$\frac{3}{8}$ "* Description of riveting long seams *8 R lap*  
Dia. of rivet holes  *$\frac{3}{8}$ "* Whether punched or drilled *drilled*  
Pitch of rivets  *$2\frac{3}{4}$ "* Lap of plating  *$3\frac{5}{8}$ "* Per centage of strength of  
Rivets *72.6* Thickness of shell crown plates  *$\frac{17}{32}$ "* Radius of do.  
Plates *72.4* .....  
*5 ft* No. of stays to do. *2* *4 punt  $9\frac{1}{2} \times \frac{3}{8}$*  Dia. of stays  *$1\frac{1}{2}$ "* Dia. of  
furnace Top  *$2-2\frac{3}{4}$ "* Bottom  *$4-11\frac{1}{2}$ "* Length of furnace *4 ft*  
Thickness of furnace plates  *$\frac{17}{32}$ "* Description of joint *S. R. lap*  
Thickness of *comb cham.* furnace crown plates  *$\frac{17}{32}$ "* Stayed by *stays*  
Working pressure of shell by rules *82 lbs.* Working pressure of furnace by  
rules *98 lbs.* Dia. of uptake *15"* Thickness of uptake plates  *$\frac{7}{16}$ "*  
Thickness of water tubes  *$\frac{3}{8}$ "*

## SPARE GEAR.

State the articles supplied: -

The foregoing is a correct description,

Manufacturer.

LTH 568-0046