

Particulars referred to,

Description *Circular Vertical Cochran Patent*

Made at *Birkenhead* by whom made *Cochran & Co.*

when made *1890* where fixed *at*

Working pressure *60 lbs* tested by hydraulic pressure to *120 lbs*

No. of Certificate *876* fire-grate area

description of safety valves No. of safety valves

area of each if fitted with easing gear

if steam from main boilers can enter the donkey boiler

diameter of donkey boiler *4' 6"* length *15' 6"*

description of rivetting *Cap. Rivets*

longl. seam *Double Riv.* cir. seam *Single Riv.*

Thickness of shell plates *7/16"* diameter of rivet holes *13/16"*

whether punched or drilled *drilled* pitch of rivets *2 3/4"*

lap of plating *4'* per centage of strength of joint *70-74*

thickness of crown plates *1 1/2"* stayed by *hemispherical*

Diameter of furnace: top *2' 1"* *Radius* bottom *1'*

length of furnace *6' 2"* thickness of plates *1/2"*

description of joint *Single riveted Cap.*

Thickness of furnace crown plates *1/2"*

stayed by *Hemispherical Shells*

working pressure of shell by rules *72 lbs*

Working pressure of furnace by rules *80 lbs*

diameter of uptake *18" x 20"* thickness of plates *1/2"*

thickness of water tubes *1/2"*

*Making and rivets of steel  
Tubes " " Iron.*

Lloyd's Register of British & Foreign Shipping.

Telegraphic Address:  
"REGISTER, LIVERPOOL"

12, Quail Chambers.

Liverpool, 16<sup>th</sup> April 1890


The Surveyors  
Sunderland

Guthrie

On the other side please find  
particulars of *Donkey Water Boiler*  
manufactured by *Messrs. Cochran & Co.*  
of *Birkenhead* and intended  
for the *S.S. Sea King N. Dwyer House*  
*yard no 194*

I am, Guthrie

Your obedient Servant,

 *Mr. C. C. C.*

Lloyd's Register  
Foundation

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