

Particulars referred to. S.S. "Umtali"

Description Circular Vert<sup>l</sup> Cochran Patent  
 Made at Brickhead by whom made Cochran & Co  
 when made Tested 24/2/96 where fixed.....  
 Working pressure 80 lbs tested by hydraulic pressure to 160 lbs  
 No. of Certificate 1343 fire-grate area 20 sq feet  
 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 6' 6" length 14' 0"  
 description of rivetting Lap joints  
 longl. seam Double Riv cir. seam Single Riv  
 Thickness of shell plates 15" diameter of rivet holes 8"  
 whether punched or drilled drilled pitch of rivets 2 13"  
 lap of plating 4" per centage of strength of joint 60.8  
 thickness of crown plates 7 16" stayed by Hemispherical  
Rad.  
 Diameter of furnace: top 2' 8" bottom 5' 4" dia.  
 length of furnace Circular thickness of plates 9 16"  
 description of joint Single riveted lap  
 Thickness of furnace crown plates 7 16"  
 stayed by Hemispherical shape  
 working pressure of shell by rules 89.7 lbs  
 Working pressure of furnace by rules 216  
 diameter of uptake 15 7 17" thickness of plates 1 2"  
 thickness of water tubes ✓  
Plating and rivets of steel  
Leban - - - - - Iron

Lloyd's Register of British & Foreign Shipping,

12, ORIEL CHAMBERS,

TELEGRAPHIC ADDRESS:  
 "REGISTER, LIVERPOOL"

LIVERPOOL, March 20<sup>th</sup> 1896

The Surveyors  
Sunderland

Dear Sir

On the other side please find  
 particulars of Donkey Boiler  
 manufactured by Mess<sup>rs</sup> Cochran & Co  
of Brickhead and intended  
 for the S.S. "Umtali" built by  
by Mess<sup>rs</sup> James Laing No. 546

I am, Dear Sir

Your obedient Servant,



J. W. Glegg

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 Foundation

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