

## REPORT ON BOILERS.

No. 36352  
WED. 4-OCT. 1916

Received at London Office

Writing Report Sept 28th 1916 When handed in at Local Office 19 Port of Glasgow  
 in Survey held at Annan Date, First Survey 28-7-16 Last Survey Sept 27th 1916  
 Book. (Number of Visits 8) Gross Tons {  
 on the Donkey Boiler for S.S. GARTHELYDE Messrs Cochran & Co. Glasgow No. 186 Net  
 Built at Glasgow By whom built Messrs River Clyde S. B. Co. (1912) When built 1914  
 Made at Annan By whom made Cochran & Co. Annan Ltd When made 1916  
 By Messrs Brys and Gylsen Ltd Port belonging to Glasgow

**VERTICAL DONKEY BOILER**— No. 4212 Description Cochran Manufacturers of steel W. Beardmore & Co.  
 at Annan By whom made Cochran & Co. When made 1916 Where fixed Stobichold Working pressure 100  
 by hydraulic pressure to 200 Date of test 27-9-16 No. of Certificate 3556 Fire grate area 26.75 Description of safety valves Two Spring loaded.  
 of safety valves 2 Area of each 4.06 Pressure to which they are adjusted 100 If fitted with easing gear yes If steam from main boilers can  
 the donkey boiler no Dia. of donkey boiler 7'0" Length 14'0" Material of shell plates steel Thickness 5/8" + 1/4" Range of tensile  
 strength 28/32 Descrip. of riveting long. seams D.R. Lap Dia. of rivet holes 29/32 Whether punched or drilled drilled Pitch of rivets 2.92  
 of plating 4 1/2" Per centage of strength of joint Rivets 68.4 Working pressure of shell by rules 108 Thickness of shell crown plates 7/8" + 1/4"  
 of do. 4 1/2" No. of Stays to do. none Dia. of stays 1 1/2" Diameter of furnace Top Radius Bottom 7 1/2" Length of furnace 47 1/4"  
 thickness of furnace plates 1 1/2" + 3/4" Description of joint Working pressure of furnace by rules 100 Thickness of furnace crown  
 plates 1 1/2" Radius of do. 26" Stayed by hemisphere Diameter of uptake 15" x 23" Thickness of uptake plates 9/16"  
 thickness of water tubes Plates  
Front 3/4"  
Back 3/4"

The foregoing is a correct description,  
 For COCHRAN & CO., ANNAN, LIMITED Manufacturer.

Dates During progress of work in shops - - 1916 July 28. Aug 4. 11. 18. 24. 31. Sept 12. 27.  
 Survey while building During erection on board vessel - -  
 Total No. of visits 8

Is the approved plan of boiler forwarded herewith yes  
Drawing No 9695

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

The material & workmanship is good.

The boiler has been built under special survey.

The Boiler has been securely fitted on board & its safety valves adjusted under steam

Size of Adjusting Rings FORN 7/32" - Aft 9/32"

Survey request form

No. 1404 attached

Survey Fee ... £ 2 : 2 : } When applied for, ... 19  
 Travelling Expenses (if any) £ : : } When received, ... 19

MONTHLY ACCOUNT

John H. Heck & Wm. H. Copeman  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 3-OCT. 1916  
 Assigned TRANSMIT TO LONDON

Fred. A. Ferguson

6/10/14

Lloyd's Register Foundation