

# REPORT ON BOILERS.

No. 41018

Writing Report *9<sup>th</sup> April 1921* When handed in at Local Office *9<sup>th</sup> April 1921* Port of *Glasgow*  
 Survey held at *Annan* Date, First Survey *25<sup>th</sup> Feb* - Last Survey *8<sup>th</sup> April 1921*  
 on the *Donkey Boiler No. 8642. S/Durenda* (Number of Visits *7*) Gross *7241* Tons Net *4450*  
 Built at *Port Glasgow* By whom built *Robert Duncan & Co* 349 When built *1922*  
 made at *Annan* By whom made *Cochran & Co. Annan* When made *1921*  
*North British Steam Nav Co* Port belonging to *Glasgow*

**TICAL DONKEY BOILER**— No. *8642* Description *Cochran* Manufacturers of steel *Stewart & Lloyds*  
 at *Annan* By whom made *Cochran & Co* When made *1921* Where fixed *Engine Room* Working pressure *100*  
 by hydraulic pressure to *200* Date of test *8/4/21* No. of Certificate *1577* Fire grate area *94 sq ft* Description of safety valves *2 direct spring*  
 safety valves *2* Area of each *100 sq in* Pressure to which they are adjusted *100 lbs* If fitted with easing gear *yes* If steam from main boilers can  
 be donkey boiler *—* Dia. of donkey boiler *4'-3"* Length *11'-0"* Material of shell plates *Steel* Thickness *3/8" 7/16"* Range of tensile *21.8 22.8 22.9*  
*28/32* Descrip. of riveting long. seams *Lap. S.R.* Dia. of rivet holes *23/32* Whether punched or drilled *drilled* Pitch of rivets *2-2 1/2"*  
 plating *3 5/8"* Per centage of strength of joint *80* Rivets *80* Working pressure of shell by rules *107* Thickness of shell crown plates *9/16"*  
 of do. *57 mis* No. of Stays to do. *3* Dia. of stays *1 1/2"* Diameter of furnace Top *39 1/2"* Bottom *45"* Length of furnace *42"*  
 of furnace plates *1/2"* Description of joint *Lap. S.R.* Working pressure of furnace by rules *130* Thickness of furnace crown  
 Radius of do. *23 mis* Stayed by *Raduis* Diameter of uptake *9 1/4 x 15 3/4"* Thickness of uptake plates *1/2"*  
 of water tube plates *4 5/8"* B *1/2"*

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

During progress of work in shops - *1921 Feb 25 Mar 4. 11. 18. 23. Apr 1. 8*  
 During erection on board vessel - -  
 Total No. of visits *7*

Drawing No. *12277A.*

Is the approved plan of boiler forwarded herewith

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

*The boiler has been built under special survey.*  
*The workmanship & materials are good.*  
*The boiler is to the order of the North British Diesel Coy. Cont No 27.*

*This boiler has been secured on board and its safety valves adjusted to 100 lbs. FV <sup>13</sup>/<sub>32</sub> AV <sup>7</sup>/<sub>16</sub>*

Survey Fee ... £ *4* : *4* : } When applied for *monthly account*  
 Travelling Expenses (if any) £ : : } When received *10*

Committee's Minute **GLASGOW. 12 APR 1921**  
 Signed **TRANSMIT TO LONDON**

*Robert Gregor.*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

*See Gb. Rpt. No. 42215*