

# REPORT ON BOILERS.

Gls No. 40738.

Received at London Office

Date of writing Report 27<sup>th</sup> Dec 1920 When handed in at Local Office 27.12.1920 Port of Glasgow

No. in Reg. Book. 1 Survey held at Annan Date, First Survey 5.12.1919 Last Survey 22<sup>nd</sup> Dec 1920

on the Donkey Boiler No 8182 Somersetshire (Number of Visits 15) Tons } Gross

Master Glasgow Built at Glasgow By whom built Harland & Wolff (Glasgow) No. 579 When built 1920

Boilers made at Glasgow By whom made Harland & Wolff When made 1920

Owners Robby Line Port belonging to Liverpool

**VERTICAL DONKEY BOILER**— No. 8182 Description Cochran Manufacturers of steel Stewart & Lloyds

Made at Annan By whom made Cochran & Co When made 1920 Where fixed Engine Room Working pressure 100

Tested by hydraulic pressure to 200 Date of test 22/12/20 No. of Certificate 15842 Fire grate area 14 sq ft Description of safety valves 2 - Direct Spring

No. of safety valves 2 Area of each 3.14 sq ft Pressure to which they are adjusted 105 lb If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler Yes

Dia. of donkey boiler 5'-3" Length 13'-3" Material of shell plates Steel Thickness 7/16" Range of tensile strength 28/32 Descrip. of riveting long. seams Lap. O.S.P. Dia. of rivet holes 5/32" Whether punched or drilled drilled Pitch of rivets 2.75"

Lap of plating 3 3/8" Percentage of strength of joint Rivets 67.7 Working pressure of shell by rules 110 Thickness of shell crown plates 2 1/32" Plates 69.3

Radius of do. 3 1/2" No. of Stays to do. None Dia. of stays None Diameter of furnace Top Radius Bottom 54 in Length of furnace 28 1/2 in

Thickness of furnace plates 1/2" Description of joint Riveted Ring Working pressure of furnace by rules 100 Thickness of furnace crown plates 1/2" Radius of do. 27 inches Stayed by Hemisphere Diameter of uptake 13" x 19 1/2" Thickness of uptake plates 1/2"

Thickness of water tube plates 7/16" B. 9/16"

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

Dates of Survey while building

During progress of work in shops - 1919 Dec 5, 1920 Jan 16, 22-30, Feb 6, Feb 12, May 28, Aug 13, Oct 8-15, Nov 25.

During erection on board vessel - Dec 3, 10, 17, 22.

Total No. of visits 15 See Report 4108c

Drawing No. 11919

Is the approved plan of boiler forwarded herewith Yes.

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

The boiler has been built under special survey.

The workmanship and materials are good.

This boiler has been securely fitted on board, and its safety valves adjusted under steam to above pressure.

R. J. Bewick

Survey request form No. 1681 attached.

Survey Fee ... .. £ 2 : 2 : } When applied for, Monthly

Travelling Expenses (if any) £ : : } When received, me

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

Committee's Minute Glasgow 28 DEC 1920

Assigned TRANSMIT TO LONDON

TUE. 28 JUN. 1921

Lloyd's Register Foundation

The Surveyors are requested not to write on or below the space for Committee's Minutes.