

## REPORT ON BOILERS.

No. 31381  
1-1912

Received at London Office

MON. DEC. 16. 1912

Date of writing Report 25-4-12 When handed in at Local Office 29.4.12 Port of Glasgow  
 No. in Survey held at Annan Ship 88 "Ethel Duncan" Date First Survey 1.3.12 Last Survey 24-4-1912  
 Reg. Book. on the Donkey Boiler for the North E. Mac Coy. Co. C. 2026 (Number of Visits 2.9 Gross 2570 Tons Net 1091)  
 Master Murphy Built at Alloa By whom built Mackay Bros & Co. When built 1912  
 Boilers made at Annan By whom made Cochran & Co. Annan Ltd When made 1912  
 Owners J. V. Duncan & Co. Port belonging to Cardiff

VERTICAL DONKEY BOILER— No. 5763 Description Cochran Pat<sup>d</sup> Manufacturers of steel Glasgow Iron & Steel Co.  
 Made at Annan By whom made Cochran & Co When made 1912 Where fixed Stitches Working pressure 100  
 tested by hydraulic pressure to 200 Date of test 24-4-12 No. of Certificate 1541 Fire grate area 14 Description of safety valves One direct spring  
 No. of safety valves One Area of each 4.04 Pressure to which they are adjusted 102 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 5-3 Length 11-9 Material of shell plates S Thickness 7/16 - 1/2 Range of tensile strength 28-32 Descrip. of riveting long. seams dl Dia. of rivet holes 25/32 Whether punched or drilled d Pitch of rivets 2-55  
 Lap of plating 3/8 Per centage of strength of joint Rivets 67-7 Plates 69-3 Working pressure of shell by rules 110 Thickness of shell crown plates 13/32 - 11/16  
 Radius of do. 2-7 1/2 No. of Stays to do. None Dia. of stays 1 1/2 Diameter of furnace Top 2-3 Bottom 1 Length of furnace 3-2 1/4  
 Thickness of furnace plates 1/2 - 11/16 Description of joint Hemispherical & R<sup>d</sup> Ring Working pressure of furnace by rules 111 Thickness of furnace crown plates 1/2 Radius of do. 2-3 Stayed by hemispherical Diameter of uptake 13 x 19 1/2 Thickness of uptake plates 1/2  
 Thickness of water tubes Plates F 11/16 - B 7/16

The foregoing is a correct description.

Manufacturer.

Dates of Survey while building  
 During progress of work in shops -- 1912 March 1. 7. 27 April 2. 12. 24.  
 During erection on board vessel --- Dec. 24. 6  
 Total No. of visits 6. 9

Is the approved plan of boiler forwarded herewith 7/12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Draw<sup>t</sup> 8923.

The Material & Workmanship is good.  
 The boiler has been built under special survey.

Survey request form

No. 6596 - attached

It has been securely fixed on board & its safety valves have been adjusted under steam.

Survey Fee ... £ 2 : 2 :  
 Travelling Expenses (if any) £ : : }

When applied for Monthly 4/6  
 When received 19

William Butcher.

John H Heck. A.M.S.  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned

Transmit to London.

C.B.C.

GLASGOW 30 APR. 1912

TUE. DEC. 17 1912  
TUE. JAN. 2 1913

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