

## REPORT ON BOILERS.

Sld. No. 33126

Sld. No. 63449

FEB 12 1941

Received at London Office

Date of writing Report 19 When handed in at Local Office 10: 2: 1941 Port of Glasgow  
 No. in Survey held at Annan Date, First Survey 21: 11: 1940 Last Survey 17: 1: 1941  
 Reg. Book. on the S.S. Capital (Number of Visits 7) Gross 1558 Tons Net 885  
 Built at Sunderland By whom built S. P. Austin Son Ltd Yard No. 355 When built 1941  
 Boilers made at Annan By whom made Cochran & Co (Annan) Ltd Boiler No. 14932 When made 1941  
 Owners Port belonging to

**VERTICAL DONKEY BOILER**— No. 1 Description Vertical Manufacturers of steel Cochran & Co Ltd  
 Made at Annan By whom made Cochran & Co (Annan) Ltd When made 1941 Where fixed P. Side Bth. Rm. Working pressure 100  
 Tested by hydraulic pressure to 208 Date of test 17-1-41 No. of Certificate 20694 Fire grate area 16.75 Description of safety valves Enclosed Spring  
 No. of safety valves 2 Area of each 3.14 Pressure to which they are adjusted 105 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Diameter of donkey boiler 5'6" Length 12'3" Material of shell plates Steel Thickness 7/16" x 1/2"  
 Range of tensile strength 28-32 Description of riveting long. seams DR Lap Diameter of rivet holes 2 5/32 Whether punched or drilled Drilled Pitch of rivets 2.5, 2.55, 2.6 Lap of plating 3 7/8 Per centage of strength of joint Rivets 66.73 Plates 68.76 Working pressure of shell by rules 117.1 Thickness of shell crown plates 1 3/32 Radius of do. 2'9" No. of stays to do. Diameter of stays Diameter of furnace—Top Bottom 4'9" Length of furnace Thickness of furnace side plates 1/2" Description of joint Seamless Working pressure of furnace by rules 144.7 Thickness of Ogee ring 2 3/32 Working pressure of Ogee ring by rules 114.1 Thickness of furnace crown plates 1/2" Radius of do. 2'4 1/2" Stayed by Hemisphere Diameter of uptake 13 x 19 1/2" Thickness of uptake plates 9/16" Thickness of tube plates front 19/32 back 3/32 Mean pitch of stay tubes in nest 10.56 Pitch in outer vertical rows 8"  
 Diameter of tube holes FRONT stay 2 1/4" BACK stay 2 1/2" Working pressure of tube plates by rules 109.5 & 111.5 Tubes: Material Lap welded iron  
 External diameter stay 2 1/2" plain 2 1/2" Thickness stay 11/32 plain 11/32 No. of threads per inch 9 Pitch of tubes 4 x 3 1/2"  
 Working pressure by rules 125 Manhole compensation: Size of opening in shell plate 21 x 17 Section of compensating ring 2 (1 x 4 1/2) No. of rivets and diameter of rivet holes 40 @ 2 5/32 Outer row pitch at ends 4"

The foregoing is a correct description, GAB.

E. A. Rex.

Manufacturer

FOR COCHRAN &amp; CO., ANNAN, LTD.

Dates of Survey while building During progress of work in shops - 1940 Nov: 21, 28 Dec: 5, 12, 24 (1941) Jan: 9, 17 Drawing No. 25780.  
 During erection on board vessel - -  
 Total No. of visits 7 Is the approved plan of boiler forwarded herewith

## GENERAL REMARKS

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

This boiler has been constructed under special survey in accordance with the Society's Rules and the approved plan. The material & workmanship are good.  
 The boiler is intended for Messrs S. P. Austin Son No. 355.

This boiler has been efficiently installed in the ship and its safety valves have been adjusted under steam

L. R. Horne

Survey Fee ... £ 4 : 4 :  
 Travelling Expenses (if any) £ : :

When applied for 19  
 When received 19

MONTHLY ACCOUNT

Committee's Minute

Assigned

TRANSMIT TO LONDON

GLASGOW 11 FEB 1941

FEB 4 JUL 1941

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

003191-003199-0159