

## REPORT ON BOILERS.

No. 62544

Date of writing Report 1940 When handed in at Local Office 6. 7. 1940 Port of Glasgow  
 No. in Survey held at Annan Date, First Survey Jan'y 18<sup>th</sup> Last Survey July 2<sup>nd</sup> 1940  
 Reg. Book. on the (Number of Visits 21) Tons { Gross Net  
 Built at Glasgow By whom built Wm Wenny & Bros Ltd Yard No. 1347 When built 1940  
 Boilers made at Annan By whom made Buchan & Annan Ltd Boiler No. 14531 When made 1940  
 Owners Port belonging to

VERTICAL DONKEY BOILER— No. one Description Buchan Composite Manufacturers of steel Buchan Ltd  
 Made at Annan By whom made Buchan & Annan Ltd When made 1940 Where fixed Working pressure 120 lb  
 tested by hydraulic pressure 230 Date of test 25.6.40 No. of Certificate 20591 Fire grate area 60 Description of safety valves Evolved spring  
 No. of safety valves 2 Area of each 7.06 sq Pressure to which they are adjusted If fitted with easing gear yes If steam from main boilers can enter the donkey boiler Diameter of donkey boiler 8'-0" Length 21'-3" Material of shell plates S Thickness 21/32 13/16  
 Range of tensile strength 28-32 Description of riveting long. seams DR Lap Diameter of rivet holes 1 1/32 Whether punched or drilled drilled Pitch of rivets 3.14 3.09 3.29 Lap of plating S Per centage of strength of joint Rivets 636 54.6 Working pressure of shell by Plates 67.2 66.8  
 rules 121 Thickness of shell crown plates 1 1/32 19/32 Radius of do. 4'-0" No. of stays to do. Diameter of stays Diameter of furnace—Top Bottom 7'-0" Length of furnace Thickness of furnace side plates 23/32 Description of joint Seamless Working pressure of furnace by rules 144 Thickness of Ogee ring 1 1/32 Working pressure of Ogee ring by rules 124 Thickness of furnace crown plates 23/32 Radius of do. 3'-6" Stayed by Hemisphere Diameter of uptake 21 1/2 x 25 Thickness of uptake plates 9/16 Thickness of tube plates front 1 1/4 back 1 1/4 Mean pitch of stay tubes in nest 8.73 6.957 Pitch in outer vertical rows 5 1/4 & 6 1/2  
 Diameter of tube holes FRONT stay 2 3/16 1 1/16 BACK stay 2 2 1/2 F 123 & 126 Working pressure of tube plates by rules B 195 & 161 Tubes: Material S  
 External diameter stay 2 1 1/2 plain 2 1/16 1 1/16 Thickness stay 1 1/32 plain 10 LSC No. of threads per inch 9 Pitch of tubes 2 9/8 x 2 9/16 3.25 x 5.13  
 Working pressure by rules Manhole compensation; Size of opening in shell plate 21 x 17 Section of compensating ring 7 1/2 x 1 1/32 No. of rivets and diameter of rivet holes 40 @ 1 1/32 Outer row pitch at ends 4.04

The foregoing is a correct description,

C. A. K. E. T.

Manufacturer

FOR COCHRAN &amp; CO. ANNAN LTD

Dates of Survey while building { During progress of work in shops - 1940 Jan'y 18 Feb. 2. 9. 20. 28. Mar. 14. 29. Drawing No. 25114  
 { During erection on board vessel - Apr. 4. 11. 18. 25. May 2. 9. 16. 21. 30. June 7. 13. 19. 25 July 2  
 Total No. of visits 21 Is the approved plan of boiler forwarded herewith yes

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

The workmanship and materials are good

The boiler has been constructed under special survey

To the order of Messrs Barclay Curle &amp; Co Ltd and intended to be fitted with their engines E.W. 127

Heating surface - oil fired 5900 sq ft Exhaust gas - 7600 sq ft.

Survey Fee ... £ 7 : - :  
 Travelling Expenses (if any) £ : : }

When applied for  
 When received 19

MONTHLY ACCOUNT

Committee's Minute GLASGOW 9 JUL 1940

Assigned TRANSMIT TO LONDON

Sh. Danks  
 Engineer Surveyor to Lloyd's Register of Shipping.

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W161-0149