

# REPORT ON BOILERS.

Slid. No. 31976

Slid. No. 57413

-2 SEP 1936 10 DEC 1936

Received at London Office

Port of Glasgow Date, First Survey 10.1.36 Last Survey 28.8.1936  
 No. in Survey held at Annan (Number of Visits 25)  
 Reg. Book. on the new steel ship "E. O'Riordan" Tons { Gross 1096 Net 577  
 Master J. M. ... Built at Sunderland By whom built S. F. Austin & Son Ltd (1912-31) When built 1936  
 Boilers made at Annan By whom made Buchanan & Co. Annan Ltd No 13281 When made 1936  
 Owners Boy Bros Ltd Port belonging to London

**VERTICAL DONKEY BOILER**— No. one Description vertical Manufacturers of steel B. Miles Ltd  
 Made at Annan By whom made Buchanan & Co. Annan Ltd When made 1936 Where fixed Working pressure 100  
 Tested by hydraulic pressure to 200 Date of test 28.8.36 No. of Certificate 19795 Fire grate area 16.75 sq ft Description of safety valves enclosed spring  
 No. of safety valves 2 Area of each 3.14 sq ft Pressure to which they are adjusted 100 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 S Thickness 2" 8 1/2"  
 Range of tensile strength 28-32 tons Description of riveting long. seams DR lap Diameter of rivet holes 3/8" Whether punched or drilled drilled Pitch of rivets 2.69" 2.55" 2.5" Lap of plating 3 1/2" Per centage of strength of joint 68.6 Working pressure of shell by rules 117 Thickness of shell crown plates 13/16" 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 144.4 Thickness of Ogee ring 1 1/2" Working pressure of Ogee ring by rules 104 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 3/32" back 1/32" Mean pitch of stay tubes in nest 10 1/2" Pitch in outer vertical rows 4"  
 Diameter of tube holes FRONT stay 2 1/8" BACK stay 2 1/2" Working pressure of tube plates by rules F104.5, B111.5 Tubes: Material iron  
 External diameter stay 2 1/2" plain 2 3/8" Thickness stay 3/32" plain 1/16" 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 16" x 12" Section of compensating ring 6" x 1 1/2" No. of rivets and diameter of rivet holes 36 @ 2 1/2" Outer row pitch at ends 3 1/2"

For **BOOHRAN & CO., ANNAN, LIMITED,**

The foregoing is a correct description,

W. H. ... Works Manager. Manufacturer.

Dates of Survey while building { During progress of work in shops - { 1936 Jan. 10. 16. 22. 29 Feb. 6. 11. 26 Mar. 6. 12. 19. 26 Drawing No. 21539  
 { During erection on board vessel - { Apr. 2. 9. 16. 28. 30 June 13. 18. 25 July 3. 30 Aug 5. 13. 19. 28  
 Total No. of visits 25 Is the approved plan of boiler forwarded herewith yes

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

The materials and workmanship are good.  
 The boiler has been constructed under special survey.  
 It will be sent to Sunderland to be fitted in the vessel.

This boiler has been efficiently fitted on board and its safety valves have been adjusted to the working pressure in accordance with the requirements of the Rules.  
L. R. Horne.

Survey Fee ... £ 4 : 4 : { When applied for ... 19 ...  
 Travelling Expenses (if any) £ : : { When received 19.10.1936

MONTHLY ACCOUNT

L. R. Horne  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 1 SEP 1936  
 Assigned TRANSMIT TO LONDON

W380-0014

Lloyd's Register Foundation



