

# REPORT ON BOILERS.

Sld. N° 32481  
Sld No. 59854.

JUN 7 1938  
JUN -8 1938

Date of writing Report 10 When handed in at Local Office 6. 6 38 Port of Glasgow  
No. in Survey held at Annan Date, First Survey 31st March 1938. Last Survey 2nd June 1938  
Reg. Book. on the 1st Joseph Swan (Number of Visits) Gross 1571 Net 913  
Master Built at Sunderland By whom built S.P. Austin & Son S.P. 350 When built 1938  
Boilers made at Annan By whom made Buchan & Co Annan Ltd N° 14109 When made 1938  
Owners London Power Co. Ltd Port belonging to London

**VERTICAL DONKEY BOILER**— No. Description Manufacturers of steel B. Wills Ltd ✓  
Made at By whom made When made 1938 Where fixed Working pressure 100 ✓  
tested by hydraulic pressure to 200 Date of test 2. 6. 38 No. of Certificate 20205 Fire grate area 16.75 ft² Description of safety valves Enclaved spring  
No. of safety valves 2 Area of each 3.14 ft² Pressure to which they are adjusted 100 lb 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" ✓ 7/16" ✓  
Range of tensile strength 28-32 tons Description of riveting long. seams WR Lap ✓ Diameter of rivet holes 35/32" ✓ Whether punched or drilled Pitch of rivets 2.647" 2.554" 2.5" ✓ Lap of plating 37" ✓ Per centage of strength of joint Rivets 66.6 Plates 68.6 Working pressure of shell by rules 117 Thickness of shell crown plates 13 1/16" ✓ Radius of do. 2'-9" ✓ No. of stays to do. none Diameter of stays Diameter of furnace—Top Bottom 4'-9" ✓ Length of furnace Thickness of furnace side plates 5" ✓ Description of joint seamless Working pressure of furnace by rules 144 Thickness of Ogee ring 11/16" ✓ 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 23/32" ✓ back 19/32" ✓ Mean pitch of stay tubes in nest 10.5" Pitch in outer vertical rows 8" ✓  
Diameter of tube holes FRONT stay 2 1/16" ✓ BACK stay 2 1/2" ✓ Working pressure of tube plates by rules F104. B111 Tubes: Material Iron ✓  
External diameter stay 2 1/2" ✓ plain 2 3/8" ✓ Thickness stay 11/32" ✓ plain 11/32" ✓ No. of threads per inch 9 ✓ Pitch of tubes 3 1/2" x 4" ✓  
Working pressure by rules 125 Manhole compensation: Size of opening in shell plate 16" x 12" ✓ Section of compensating ring 6" x 11/16" x 2 No. of rivets and diameter of rivet holes 36 @ 25/32" ✓ Outer row pitch at ends 3 1/16" ✓

The foregoing is a correct description.

W. O. G. Manufacturer.  
WORKS MANAGER

Dates of Survey while building { During progress of work in shops- 1938 Mar. 31. Apr. 8. 20. 29. May 6. 10. 19. 23. June 2  
During erection on board vessel - - -  
Total No. of visits  
Drawing No. 23319 ✓  
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 under steam.

L. D. Horne

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

MONTHLY ACCOUNT

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

Committee's Minute GLASGOW 7 - JUN 1938  
Assigned TRANSMIT TO LONDON

Lloyd's Register Foundation