

# REPORT ON BOILERS.

Slid. No 30200

No. 49597

Date of writing Report 19 When handed in at Local Office 9. 9. 1929 Port of Glasgow.  
 No. in Survey held at Annan. Date, First Survey 2. 7. 29 Last Survey 3. 9. 1929  
 Reg. Book. on the BOILER No 11249. S.S. TORCHBEARER (Number of Visits 6) Gross 1267 Tons Net  
 Master Built at Sunderland By whom built J. Foun & Son Ltd When built 1929  
 Boilers made at Annan. By whom made Messrs. Cochran & Co. Annan Ltd. When made 1929  
 Owners Gas Light & Coke Co Port belonging to London.

VERTICAL DONKEY BOILER— No. One. Description Vertical. Manufacturers of steel D. Colville & Sons Ltd.  
 Made at Annan. By whom made Cochran & Co. Annan Ltd. When made 1929. Where fixed Fitchell Working pressure 100.  
 tested by hydraulic pressure to 200. Date of test 3. 9. 29. No. of Certificate 18415. Fire grate area 62.4. Description of safety valves Enclosed spring  
 No. of safety valves 2 Area of each 3.14. Pressure to which they are adjusted 105. 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", 1/2", 7/16".  
 Range of tensile strength 28-32. Description of riveting long. seams D.R. lap. Diameter of rivet holes 25/32". Whether punched or  
 drilled drilled. Pitch of rivets 2.694", 2.534", 2.5". Lap of plating 3/8". Per centage of strength of joint Rivets 66.6. Working pressure of shell by  
 rules 114. Thickness of shell crown plates 13/32", 1/2". Radius of do. 2'-9". No. of stays to do. Diameter of stays Diameter of  
 furnace—Top Bottom 4'-9". Length of furnace 3'-3 3/4". Thickness of furnace side plates Description of joint Working  
 pressure of furnace by rules 144.8. Thickness of Ogee ring 1/16". 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 1/2". 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 1/16". Working pressure of tube plates by rules 8. 111.5. Tubes: Material Wrought iron.  
 External diameter stay 2 1/2" plain 2 3/8". Thickness stay 11/32" plain 11/16". 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 1 1/2". No. of rivets and diameter of rivet holes 36 off. 25/32". Outer row pitch at ends 3 5/8".

The foregoing is a correct description.

For COCHRAN & CO., ANNAN, LIMITED

J. C. Woodham Manufacturer.

Dates of Survey while building During progress of work in shops 1929 July 2. 10 Aug. 1. 9. 19 Sep 3  
 During erection on board vessel  
 Total No. of visits 6

Drawing No. 12410.

Copy of Is the approved plan of boiler forwarded herewith Yes.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under  
 Survey in accordance with the Rules and approved plan.  
 The materials and workmanship are good.  
 This boiler has been built to the order of Messrs. John Brown & Sons Sunderland.  
 This vessel has been satisfactorily fitted in the vessel & the safety  
 valves admitted under steam to the pressure stated above.  
 For notation see machinery report.

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

When applied for 19.  
 When received 19.

MONTHLY ACCOUNT

Committee's Minute GLASGOW 10 SEP 1929  
 Assigned TRANSMIT TO LONDON

A. Campbell  
 Engineer Surveyor to Lloyd's Register of Shipping.

TUE. 26 NOV 1929

W433-0130

Lloyd's Register  
 Foundation