

# REPORT ON BOILERS.

No. 50394

7 MAY 1930

Received at London Office

Date of writing Report 1. 5. 1930 When handed in at Local Office 1. 5. 1930 Port of GLASGOW 12 FEB 1931

No. in Survey held at Annan Date, First Survey 14. 2. 30 Last Survey 24. April 1930  
 Reg. Book. on the Boiler No. 11393 WORCESTERSHIRE (Number of Visits 8) Tons {Gross 11453  
 Net 7161

Master Bibby S. S. Coy. Ltd. Built at Glasgow By whom built Fairfield S. B. & Coy. Ltd. When built 1931  
 Boilers made at Annan By whom made Messrs Cochran & Co. Annan L<sup>d</sup>. When made 1930  
 Owners Bibby S. S. Coy. Ltd. Port belonging to Liverpool

**VERTICAL DONKEY BOILER**— No. One Description Vertical Manufacturers of steel D. Colville & Sons L<sup>d</sup>  
 Made at Annan By whom made Cochran & Co. Annan L<sup>d</sup>. When made 1930 Where fixed Working pressure 120  
 tested by hydraulic pressure to 230 Date of test 24. 7. 30 No. of Certificate 8692 Fire grate area 18.75 Description of safety valves Enclosed spring  
 No. of safety valves 2 Area of each 3.14 Pressure to which they are adjusted Yes If fitted with easing gear Yes If steam from main boilers can  
 enter the donkey boiler No Diameter of donkey boiler 6'-0" Length 14'-3" Material of shell plates Steel Thickness 17/32; 19/32; 17/32  
 Range of tensile strength 28-32 Description of riveting long. seams D.R. Lap Diameter of rivet holes 29/32 Whether punched or  
 drilled drilled Pitch of rivets 2.739; 2.857; 2.8125 Lap of plating 1/2 Per centage of strength of joint Rivets 71.0 Working pressure of shell by  
 rules 134.6 Thickness of shell crown plates 29/32; 15/32 Radius of do. 3'-0" No. of stays to do. ✓ Diameter of stays ✓ Diameter of  
 furnace—Top ✓ Bottom 5'-0" Length of furnace ✓ Thickness of furnace side plates ✓ Description of joint ✓ Working  
 pressure of furnace by rules 146.9 Thickness of Ogee ring 29/32 Working pressure of Ogee ring by rules 127 Thickness of furnace  
 crown plates 17/32 Radius of do. 2'-6" Stayed by Hemisphere Diameter of uptake 13" x 19 1/2" Thickness of uptake  
 plates 9/16 Thickness of tube plates front 29/32 back 25/32 Mean pitch of stay tubes in nest 11.34 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 13.135-2 Tubes: Material Wrought Iron  
 External diameter stay 2 1/2 plain 2 9/16 Thickness stay 1/32 plain 1/456 No. of threads per inch 9 Pitch of tubes 3 9/16" x 4"  
 Working pressure by rules ✓ 125 Manhole compensation; Size of opening in shell plate 16" x 12" Section of compensating  
 ring 6" x 3/4" No. of rivets and diameter of rivet holes 36 off. 29/32 Outer row pitch at ends 3 5/8

The foregoing is a correct description,  
 For COCHRAN & CO., ANNAN, LIMITED,  
 Manufacturer.  
Walter Duffell Works Manager.

Dates of Survey while building { During progress of work in shops - } 1930 Feb. 14. 25 Mar. 12. 20. 28 Apr. 2. 10. 24 Drawing No. 16388  
 { During erection on board vessel - }  
 Total No. of visits 8 Is the approved plan of boiler forwarded herewith Yes

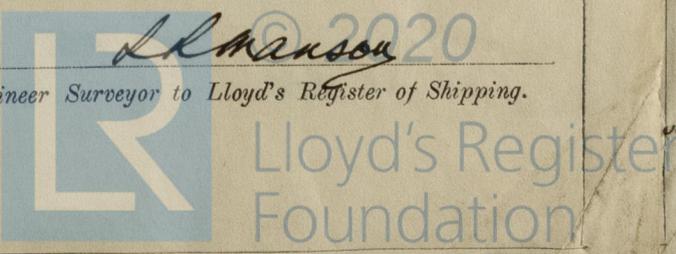
**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been built under survey, in accordance with the Rules and approved plan. The materials and workmanship are good. This boiler has been built to the order of Fairfield Shipbuilding & Engineering Coy. L<sup>d</sup> and is intended for their No. 640

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

MONTHLY ACCOUNT

W. A. Manson 2020  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 6 MAY 1930  
 Assigned TRANSMIT TO LONDON



Is a Report also sent on the Hull of the Ship? If not, state whether, and when, one will be sent.