

(Mch. 22. Rpt. 12041)

pt. 5b.

REPORT ON BOILERS.

No. 43293

Received at London Office

WFO 23 JAN 1924

19 AUG 1924

Date of writing Report 18th Jan 1924 When handed in at Local Office 19th Jan 1924 Port of Glasgow
No. in Survey held at Annan Date, First Survey 9 Last Survey 18. 1. 1924
Reg. Book. Bochran Boiler No 9147 S.S. DONA FLORA (Number of Visits 1) Gross Tons 31 Net Tons 27
Master Haverton Hill on Ties By whom built Furness Shipbuilding Co. Ltd. (S.S. No 104) When built 1924
Boilers made at Annan By whom made Bochran & Co., Annan Ltd. When made 1924
Owners Port belonging to

VERTICAL DONKEY BOILER No. 9147 Description Bochran Manufacturers of steel J. Colville & Son, Ltd.
Made at Annan By whom made Bochran & Co., Annan Ltd. When made 1924 Where fixed Stokehold Working pressure 100 lbs./sq. in.
Tested by hydraulic pressure to 200 lbs./sq. in. Date of test 18. 1. 24 No. of Certificate 16405 Fire grate area 14 sq. ft. Description of safety valves Direct 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 Dia. of donkey boiler 5'-3" Length 11'-9" Material of shell plates Steel Thickness $\frac{13}{32}$ & $\frac{1}{2}$ " Range of tensile strength 28/32 Descrip. of riveting long. seams DR lap Dia. of rivet holes $\frac{25}{32}$ " Whether punched or drilled drilled Pitch of rivets $\frac{2.56}{2.625}$ "
Cap of plating $\frac{3}{8}$ " Per centage of strength of joint 72.45 Rivets 69.5 Working pressure of shell by rules 117 lbs./sq. in. Thickness of shell crown plates $\frac{3}{8}$ & $\frac{43}{64}$ "
Radius of do. 2'-7 $\frac{1}{2}$ " No. of Stays to do. None Dia. of stays - Diameter of furnace Top Hemisphere Bottom 4'-6" Length of furnace 2'-5 $\frac{3}{8}$ "
Thickness of furnace plates $\frac{1}{2}$ " Description of joint Seamless Working pressure of furnace by rules 153 lbs./sq. in. Thickness of furnace crown plates $\frac{1}{2}$ " Radius of do. 27" Stayed by Hemisphere Diameter of uptake 13'-19 $\frac{1}{2}$ " Thickness of uptake plates $\frac{1}{2}$ "
Thickness of water tube plates $\frac{11}{16}$ "

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

Dates of Survey while building
During progress of work in shops - 1924 Jan 18
During erection on board vessel - -
Total No. of visits 1

Drawing No 12709

Is the approved plan of boiler forwarded herewith yes.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler, which has not been built under Special Survey, has been examined throughout, and the scantlings checked and found in accordance with the approved plan; the materials have been tested by the Society's Surveyors, and the marks on plates verified with the certificates; the boiler has been tested by hydraulic pressure to 200 lbs./sq. in. with satisfactory results; workmanship good. This boiler is a duplicate of the Boilers Nos 8755 & 8756, Glasgow Reports Nos 41299 & 41300.

Annual Survey Request.

This boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted

Wm Morrison

Survey Fee ... £ 4 : 4 : When applied for, 10
Travelling Expenses (if any) £ : : When received, 10

MONTHLY ACCOUNT

A. G. Forster

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI 22 AUG 1924

Committee's Minute

Assigned

GLASGOW 22 JAN 1924
TRANSMIT TO LONDON