

REPORT ON BOILERS.

No. 57851

7 JAN 1937

Date of writing Report 31-12-1936 When handed in at Local Office 4-1-1937 Port of Glasgow.
No. in Survey held at Date, First Survey 4-11-36 Last Survey 30-12-1936
Reg. Book. on the Boiler N° 13430 Mr. Roxburgh Castle (Number of Visits 11) Gross Tons Net Tons
Master Built at By whom built When built
Boilers made at By whom made When made
Owners Port belonging to

VERTICAL DONKEY BOILER— No. 1 Description Cochran Manufacturers of steel Steel C° 8' land
Made at Annan By whom made Cochran & C° Annan When made Where fixed In Lanchester Working pressure 100
tested by hydraulic pressure to 200 Date of test 30-12-36 No. of Certificate 19878 Fire grate area Description of safety valves D. S. I.
No. of safety valves 2 Area of each 1.76 Pressure to which they are adjusted 100 lb If fitted with easing gear 4/16 If steam from main boilers can enter the donkey boiler ✓ Diameter of donkey boiler 3'-9" Length 10'-0" Material of shell plates 8 Thickness 3/8" - 13/32"
Range of tensile strength 28-32 Description of riveting long. seams J. R. L. Diameter of rivet holes 23/32" Whether punched or drilled drilled Pitch of rivets 2-23, 2-26, 2-28, 9" Lap of plating 3 3/4 Per centage of strength of joint Rivets 75.3 Working pressure of shell by rules 145.4 Thickness of shell crown plates 1/2" Radius of do. 3'-2" No. of stays to do. none Diameter of stays ✓ Diameter of furnace—Top 3'-1" Bottom 3'-8 1/8" Length of furnace 18" Thickness of furnace side plates 1/2" Description of joint E. W. Working pressure of furnace by rules 179.2 Thickness of Ogee ring ✓ Working pressure of Ogee ring by rules 119 Thickness of furnace crown plates 1/2" Radius of do. 23" Stayed by Hemisphere Diameter of uptake 8 1/4" x 13 3/4" Thickness of uptake plates 1/2" Thickness of tube plates front 11/16" back 17/32" Mean pitch of stay tubes in nest 8.84" Pitch in outer vertical rows 7 1/8"
Diameter of tube holes FRONT stay 2 1/16" BACK stay 2 1/2" Working pressure of tube plates by rules F116, B124 Tubes: Material Iron
External diameter stay 2 1/2" plain 2 9/16" Thickness stay 11/32" plain 11/32" No. of threads per inch 9 Pitch of tubes 3 9/16" x 3 1/2"
Working pressure by rules 125 Manhole compensation; Size of opening in shell plate 16" x 12" Section of compensating ring 5 1/4" x 3/4" No. of rivets and diameter of rivet holes 22-23/32" Outer row pitch at ends 4 3/8"

FOR COCHRAN & CO., ANNAN, LTD.
The foregoing is a correct description,
J. Foster
WORKS MANAGER Manufacturer.

Dates of Survey while building During progress of work in shops - 1936 Nov. 4: 12: 17: 25: 27 Dec. 3: 10: 14: 16: 24: 30 Drawing No. 22249
During erection on board vessel - -
Total No. of visits 11
Is the approved plan of boiler forwarded herewith 40
See Boiler N° 13430. See Report N° 57802.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plan and the Society's Rules and requirements, the materials & workmanship are good.

The boiler is intended for Hartland & Wolff, 2nd Yard N° 993 and has been installed and fastened on a seat on the tank top at the fore end of the engine room, the safety valves were adjusted under steam, the accumulation test was satisfactory. In my opinion the boiler is eligible for use on a classed vessel.

4/1/37 Charles H. Hunter Belfast.

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

Committee's Minute GLASGOW 6-JAN 1937
Assigned TRANSMIT TO LONDON

MONTHLY ACCOUNT
Jas. Cairns 2019
Engineer Surveyor to Lloyd's Register of Shipping.
Bel 36-1196
Lloyd's Register Foundation
W212-0131