

Rpt. 50  
6 APR 1944

# REPORT ON BOILERS.

No. 68280.  
16 NOV 1944

Date of writing Report 19 When handed in at Local Office 30.3.1944 Port of GLASGOW.  
No. in Survey held at ANNAN Date, First Survey 16.11.43 Last Survey 24.3.1944  
Reg. Book. on the "EMPIRE RAWLINSON" (Number of Visits 9) Tons { Gross Net  
Built at PORT GLASGOW By whom built LITHGOWS LTD Yard No. 994 When built 1944  
Boilers made at ANNAN By whom made COCHRAN & CO. ANNAN LD. Boiler No. 15667 When made 1944  
Owners M.O.W.T. Port belonging to

VERTICAL DONKEY BOILER— No. One Description Cochran Manufacturers of steel Colvilles Ltd.  
Made at Annan By whom made Cochran & Co. Annan Id. When made 1944 Where fixed Working pressure 105lbs  
tested by hydraulic pressure to 208 Date of test 24.3.44 No. of Certificate 21688 Alternate Exhaust gas fired of oil Description of safety valves ordinary.  
No. of safety valves 2 Area of each 4.9sq. in. Pressure to which they are adjusted 105. If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler Diameter of donkey boiler 6'6" Length 18'3" Material of shell plates S Thickness 15" 21" 32 32  
Range of tensile strength 28-32 tons Description of riveting long. seams D.R. Lap Diameter of rivet holes 27" 32 Whether punched or drilled drilled Pitch of rivets 2.74" 2.76" 2.68" Lap of plating 4 1/2" Per centage of strength of joint Rivets 70.9 Working pressure of shell by rules 110 Thickness of shell crown plates 7" 13" 8 32 Radius of do. 3'3" No. of stays to do. - Diameter of stays - Diameter of furnace—Top - Bottom 5'6" Length of furnace - Thickness of furnace side plates 1 1/2" Description of joint Seamless Working pressure of furnace by rules 125 Thickness of Ogee ring 7" Working pressure of Ogee ring by rules 109 Thickness of furnace crown plates 1 1/2" Radius of do. 2'9" Stayed by Hemisphere Diameter of uptake 21 1/2" x 25" Thickness of uptake plates 9" 16" Thickness of tube plates front 3" 32 back 2 1/2" 32 Mean pitch of stay tubes in nest 10.05" Pitch in outer vertical rows 6 1/4"  
Diameter of tube holes FRONT stay 2 1/2" 16 BACK stay 2 1/2" 16 Working pressure of tube plates by rules F.116.B.130 Tubes: Material S  
External diameter stay 2 1/2" 16 plain 2 1/2" 16 Thickness stay 1 1/2" 16 plain 1 1/2" 16 L.S.G. No. of threads per inch 9 Pitch of tubes 3 1/8" x 3"  
Working pressure by rules 215 Manhole compensation: Size of opening in shell plate 21" x 17" Section of compensating ring 7 1/2" x 1 1/2" 32 No. of rivets and diameter of rivet holes 40 @ 27" 32 Outer row pitch at ends 4 1/8"

The foregoing is a correct description,

FOR COCHRAN & CO. ANNAN, LTD. Manufacturer

Dates of Survey while building { During progress of work in shops - {  
During erection on board vessel - - }  
Total No. of visits 9.

Drawing No. 27979 G.

Is the approved plan of boiler forwarded herewith No.  
Retained for duplicate case.

## 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.

The boiler will be sent to Greenock to be fitted on board the vessel.

This boiler has been efficiently installed in the vessel & its safety valves adjusted under steam 105 lbs/sq. in. Please see machinery report for recommendations

Charles J Hunter  
Greenock

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

Committee's Minute

GLASGOW - 4 APR 1944

14 NOV 1944

Assigned

Referred for completion

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register  
Foundation

007722-007730-0077