

(See Leith Report N° 20514)

pt. 5e.

REPORT ON BOILERS.

No. 64214

Received at London Office 13 AUG 1941

Date of writing Report 12. 8. 41 When handed in at Local Office 10. 4. 41 Port of Glasgow
 No. in Reg. Book 1 Survey held at Annan Date, First Survey 22. 5. 41 Last Survey 7. 8. 1941
 on the **"SIR LEONARD PEARCE"** (Number of Visits 6) Tons { Gross Net
 Built at Burntisland By whom built Burntisland S/B Coy Yard No. 251 When built 1941
 Boilers made at Annan By whom made W. Cochran & Co Annan Ltd Boiler No. 15070 When made 1941
 Owners Port belonging to

VERTICAL DONKEY BOILER — No. one Description W Cochran Manufacturers of steel W. Hilles Ltd
 Made at Annan By whom made W Cochran & Co Annan Ltd When made 1941 Where fixed Port side of stockhold. Working pressure 105
 tested by hydraulic pressure 208 Date of test 7-8-41 No. of Certificate 20819 Fire grate area 16.75 Description of safety valves Spring loaded
 No. of safety valves 2 Area of each Pressure to which they are adjusted 105 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler ✓ Diameter of donkey boiler 5'-6" Length 12'-3" Material of shell plates S Thickness 1/2" 7/16"
 Range of tensile strength 28-32 Description of riveting long seams WR Lap Diameter of rivet holes 27/32" Whether punched or drilled drilled Pitch of rivets 2.69" 2.55" 2.5" Lap of plating 37/8" Per centage of strength of joint Rivets 66.7 Plates 68.7 Working pressure of shell by rules 117 Thickness of shell crown plates 13/32" 23/32" Radius of do. 2'-9" No. of stays to do. - Diameter of stays - Diameter of furnace—Top - Bottom 4'-9" Length of furnace - Thickness of furnace side plates 1/2" Description of joint Seamless Working pressure of furnace by rules 144 Thickness of Ogee ring 23/32" Working pressure of Ogee ring by rules 114 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 9/16" Thickness of tube plates front 3/4" 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 1/2" Working pressure of tube plates by rules F109 B III Tubes: Material Iron
 External diameter stay 2 1/2" plain 2 9/16" Thickness stay 11/32" plain 11.56 No. of threads per inch 9 Pitch of tubes 4" x 3 1/2"
 Working pressure by rules 125 Manhole compensation; Size of opening in shell plate 21" x 17" Section of compensating ring 7" x 1" No. of rivets and diameter of rivet holes 40 @ 25/32" Outer row pitch at ends 4"

The foregoing is a correct description,
E. A. G. A. Manufacturer

FOR COCHRAN & CO. ANNAN LTD

Drawing No. 25694

Dates of Survey while building
 During progress of work in shops 1941 May: 22-29 July: 8-30 Aug: 1-7
 During erection on board vessel - - -
 Total No. of visits 6

Is the approved plan of boiler forwarded herewith yes

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The workmanship and materials are good.
 The boiler has been constructed under special survey.
 To the order of Messrs David Rowan & Co Glasgow for their engine N° 1086

This boiler has been efficiently fitted on board, and the safety valves adjusted to 105 lbs/sq. in.

J. F. Campbell.

E. G. B.
12/8/41

To be returned to Glasgow

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

MONTHLY ACCOUNT

J. H. Davis
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 12 AUG 1941
 Assigned TRANSMIT TO LONDON

See Lth 26 20514
 Lloyd's Register Foundation
 005470-005479-0210