

REPORT ON BOILERS.

No. 66953.

Received at London Office 22 APR 1943

Date of writing Report 19. 4. 1943 When handed in at Local Office 19. 4. 1943 Port of Glasgow
 No. in Survey held at Annan Date, First Survey 4. 12. 42 Last Survey 9. 4. 1943
 Reg. Book. on the PORT MACQUARIE, (Number of Visits 3) Gross Tons }
 Built at Newcastle By whom built Swan Hunter & Wigham Richardson Ltd Yard No. 1685 Net Tons }
 Boilers made at Annan By whom made Cochran & Co Annan Ltd Boiler No. 15410 When built 1943
 Owners PORT LINE LD. Port belonging to LONDON

VERTICAL DONKEY BOILER— No. one Description Cochran Composite Manufacturers of steel Schilles Ltd
 Made at Annan By whom made Cochran & Co Annan Ltd When made 1943 Where fixed in its own Compartment
 tested by hydraulic pressure to 208 Date of test 9-4-43 No. of Certificate 21379 Fire grate area 82 Description of safety valves ordinary
 No. of safety valves 2 Area of each 4.9 sq ft Pressure to which they are adjusted 105 lb If fitted with easing gear yes If steam from main boilers can enter the donkey boiler
 Diameter of donkey boiler 6'-6" Length 17'-0" Material of shell plates 3 Thickness 15" 21" 32" 32"
 Range of tensile strength 28-32 tons Description of riveting long. seams BR. lap Diameter of rivet holes 27" Whether punched or drilled drilled Pitch of rivets 2.80", 2.68", 2.82" Lap of plating 4 1/2" Per centage of strength of joint Rivets 69.8 Working pressure of shell by rules 110 Thickness of shell crown plates 11/16" Radius of do. 6'-6" No. of stays to do. Diameter of stays Diameter of furnace—Top Bottom 5'-6" Length of furnace Thickness of furnace side plates 2" Description of joint beamless Working pressure of furnace by rules 125 Thickness of Ogee ring 7/8" Working pressure of Ogee ring by rules 109 Thickness of furnace crown plates 2" Radius of do. 2'-9" Stayed by Hemisphere Diameter of uptake 15" x 23" Thickness of uptake plates 9/16" Thickness of tube plates front 15" back 27" Mean pitch of stay tubes in nest 9.294", 8.292", 12.4" Pitch in outer vertical rows 5 1/2", 6 1/2"
PLAIN TUBES "SINUFLO" Diameter of tube holes FRONT stay 1 1/2", 2" plain 1 1/2", 2" BACK stay 1 1/2", 2" plain 1 1/2", 2" Working pressure of tube plates by rules 13-156-126 Tubes: Material S
 External diameter stay 1 1/2", 2" plain 1 1/2", 2" Thickness stay 3/32" plain 10 LSC No. of threads per inch 9 Pitch of tubes 2 5/8" x 2 5/8", 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" 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

Drawing No. 28537

Dates of Survey while building
 During progress of work in shops - 1942 Dec 4, 10, 30 1943 Jan 14, 21, Feb 3, 11, 18, 25, Apr 11, 22, 29, 29
 During erection on board vessel - - -
 Total No. of visits 13

Is the approved plan of boiler forwarded herewith yes

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.
 Heating surface - Exhaust gas - 207 sq ft. Oil fired nest - 480 sq ft. Total 687 sq ft

The boiler will be sent to Newcastle to be fitted in the vessel

This Vertical Donkey Boiler has been fitted in its own compartment in the main engine room, tested under working condition and safety valves adjusted as stated above.

The steam for smothering under this boiler was tested and found satisfactory

See also Machinery Rpt H. C. Aulatt
 Newcastle on Tyne
 6th March 1944.

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

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

Committee's Minute

GLASGOW 20 APR 1943

Assigned Referred for completion

FRI. 21 APR 1944

all minute
 on Nwe 101940
 014287-014299 - 0360

Lloyd's Register
 Foundation