

REPORT ON BOILERS.

 Hdbk. 1452
 No. 67085

Date of writing Report 10 When handed in at Local Office 17.5.1943 Port of Glasgow
 No. in Survey held at Annan Date, First Survey 19.2.43 Last Survey 19.5.43
 Reg. Book. on the S/S "EMPIRE CHIEFTAIN" (Number of Visits 8) Tons Gross 9904 Net 8904
 Built at Haverton Hill in Tees. By whom built Furness Shipbuilding Co. Ltd. Yard No. 354 When built 1943
 Boilers made at Annan By whom made Cochran & Co. Annan Ltd. Boiler No. 15608 When made 1943
 Owners Ministry of War Transport. Port belonging to Huddersburgh.

VERTICAL DONKEY BOILER— No. one Description Cochran Manufacturers of steel Colvilles Ltd.
 Made at Annan By whom made Cochran & Co. Annan Ltd. When made 1943 Where fixed oil fuel Working pressure 105 lbs
 Tested by hydraulic pressure 208 Date of test 14.5.43 No. of Certificate 21417 Fire grate area 22.5 Description of safety valves ordinary
 No. of safety valves 2 Area of each 4.9 sq. Pressure to which they are adjusted 105 lbs If fitted with easing gear yes If steam from main boilers can enter the donkey boiler no. Diameter of donkey boiler 6'-6" Length 16'-3" Material of shell plates S Thickness 15" 19" 32" 32"
 Range of tensile strength 28-32 tons Description of riveting long. seams D.R. lap Diameter of rivet holes 27" Whether punched or drilled drilled Pitch of rivets 2.66" 2 11/16" 2 27/32" Lap of plating 4 1/4" Per centage of strength of joint Rivets 68.9 Working pressure of shell by rules 109.9 Thickness of shell crown plates 13" 7" 32" 8" Radius of do. 3'-3" No. of stays to do. Diameter of stays Diameter of furnace—Top Bottom 6'-6" Length of furnace Thickness of furnace side plates 1/2" Description of joint seamless 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 1/2" 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 27/32" back 23/32" Mean pitch of stay tubes in nest 11.54" Pitch in outer vertical rows 8"
 Diameter of tube holes FRONT stay 2 11/16" BACK stay 2 1/2" Working pressure of tube plates by rules F106, B-107 Tubes: Material S
 External diameter stay 2 1/2" Thickness stay 11/32" No. of threads per inch 9 Pitch of tubes 4" x 3 9/16"
 Working pressure by rules 175 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.

Dates of Survey while building { During progress of work in shops - 1943 Feb 19 Mar 16 26 31 Apr 9 16 22 May 14
 { During erection on board vessel - -
 Total No. of visits 8.

Drawing No. 28542

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

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.
 To the order of Messrs Richardson Westgarth & Co. Ltd. for their engines No. 2738.
 The boiler is being despatched to Messrs The Furness Shipbuilding Co. Ltd. Haverton Hill-on-Tees.
 This boiler was securely fitted on board & examined under working conditions & found satisfactory.
 The safety valves adjusted under steam to 105 lbs/p.s.i. on completion.

Survey Fee ... £ 4 : 4 :
 Travelling Expenses (if any) £ 1 : 1 :
 When applied for Nov 4/43
 When received 5 - NOV 1943

Ch. Davis & Co. Surveyors
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 18 MAY 1943

Assigned Refused for Completion



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 Foundation