

REPORT ON BOILERS.

No. 69975.

Date of writing Report 19 When handed in at Local Office 21. 9. 45 Port of Glasgow
 No. in Survey held at ANNAN Date, First Survey 25 Dec. 1945 Last Survey 13th Sept. 1945
 Reg. Book. on the Steel L.C. Coastal Lighter V/C. 57. (Number of Visits 20)
 Built at GREAT YARMOUTH By whom built CRABTREE (1931) LTD. Yard No. 1841 When built 1945.
 Boilers made at ANNAN By whom made COCHRAN & CO. ANNAN LD. Boiler No. 16460 When made 1945.
 Owners _____ 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 1945 Where fixed - Working pressure 125
 tested by hydraulic pressure to 238 Date of test 13.9.45 No. of Certificate 22008 Fire grate area Oil fired Description of safety valves ordinary
 No. of safety valves 2 Area of each 4.9" Pressure to which they are adjusted - If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler - Diameter of donkey boiler 7'0" Length 14'0" Material of shell plates S Thickness 19/32" 23/32"
 Range of tensile strength 28-32 tons Description of riveting long. seams D.R. Lap Diameter of rivet holes 31/32" Whether punched or drilled drilled Pitch of rivets 2.962" 3.03" Lap of plating 4 3/4" Per centage of strength of joint 68.9 Working pressure of shell by rules 129.7 Thickness of shell crown plates 1" x 17/32" Radius of do. 3'6" No. of stays to do. 3 Diameter of stays - Diameter of furnace—Top - Bottom 6'0" Length of furnace - Thickness of furnace side plates 21/32" Description of joint Seamless Working pressure of furnace by rules 152 Thickness of Ogee ring 1" Working pressure of Ogee ring by rules 133 Thickness of furnace crown plates 21/32" Radius of do. 3'0" Stayed by Hemisphere Diameter of uptake 16" x 20" Thickness of uptake plates 21/32" Thickness of tube plates front 1 1/16" back 1" Mean pitch of stay tubes in nest 10.77" Pitch in outer vertical rows 8"
 Diameter of tube holes FRONT stay 2 1/16" plain 2 9/16" BACK stay 2 1/2" plain 2 1/2" Working pressure of tube plates by rules F. 126.2 B. 146 Tubes: Material S
 External diameter stay 2 1/2" plain 2 1/2" Thickness stay 11/32" plain 10 L.S.G. No. of threads per inch 9 Pitch of tubes 4" x 3 3/4"
 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 1/32" No. of rivets and diameter of rivet holes 40 @ 31/32" Outer row pitch at ends 4 1/2"

Heating Surface 500 sq. ft.

The foregoing is a correct description,

Calax
FOR COCHRAN & CO., ANNAN, LTD. Manufacturer

Dates of Survey while building { During progress of work in shops - - } 1944 Dec 21 1945 Jan 10 Feb 21 Mar 23 Apr 20 May 31 Jun 18 1945 Jul 13 Aug 10 17 Drawing No. 30611
 { During erection on board vessel - - } 1945: Oct 25. Nov 21. (1946) Feb 7. 26 Apr 16. 26 May 9. 14. 28 June 14.
 Total No. of visits 20 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 The Admiralty for a Steam Lighter Building by Messrs. Crabtree (1931) Ltd. Great Yarmouth.

London

The boiler has been securely fitted on board the vessel under Special Survey; the materials and workmanship are good and upon completion the boiler was examined under steam & safety valves adjusted to 125 lb.

A. Bennett

Survey Fee £ 4 : 4 : 0 When applied for Nov 4/45 19
 Travelling Expenses (if any) £ : : } When received 19

S. E. Murdoch
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW

Assigned Deferred.

27 SEP 1945

FRI. 19 JUL 1946

See F.E. Mackay opt.

Lloyd's Register Foundation