

Rpt. 5e.

REPORT ON BOILERS.

No. 69861

Received at London Office 20 AUG 1945

Date of writing Report 10 When handed in at Local Office 11. 8. 1945 Port of GLASGOW.

No. in Survey held at ANNAN. Date, First Survey 21. 12. 44 Last Survey 10th August, 19 45.

Reg. Book. "Vic 63" (Number of Visits 18) Tons { Gross Net

Built at GREAT YARMOUTH By whom built CRABTREE (1931) LTD. Yard No. When built 1945.

Boilers made at ANNAN By whom made COCHRAN & CO. ANNAN, LTD. Boiler No. 16459 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, Ltd. When made 1945. Where fixed - Working pressure 125 lbs.

tested by hydraulic pressure to 238 Date of test 10-8-45. No. of Certificate 21990 Fire grate area 26.75 sq. ft. Description of safety valves Ordinary

No. of safety valves 2 Area of each 4.9" Pressure to which they are adjusted 420 lb. 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 2 8-32 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" 2.87" Lap of plating 4 5/8" Per centage of strength of joint Rivets 68.9 Plates 66.4 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. - 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 1/2" 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 11/16" BACK stay 2 1/2" Working pressure of tube plates by rules F: 126.2 Tubes: Material S plain 2 9/16" 2 1/2" B: 146

External diameter stay 2 1/2" Thickness stay 11/32" No. of threads per inch 9 Pitch of tubes 4" x 3 3/4" plain 2 1/2" 10 L.S.G.

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"

The foregoing is a correct description,

FOR COCHRAN & CO., ANNAN, LTD. Manufacturer

Dates of Survey while building { During progress of work in shops - 1944 Dec 21, 1945 Jan 10 Feb 2, 14, 21 Mar 2, 23 Apr 6, 20 May 3 18 Drawing No. 29465. }
 { During erection on board vessel - - - Jun 1, 8, 15, 29 Jul 13 Aug 2, 10. }
 Total No. of visits 18

Is the approved plan of boiler forwarded herewith No
 Retained for Duplicate Cases.

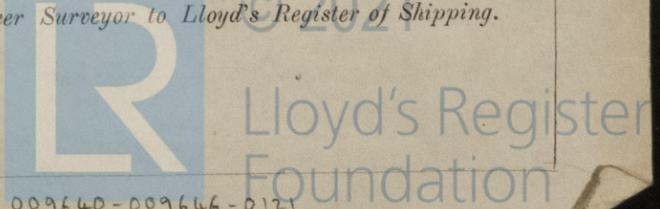
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

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.

Survey Fee ... £ 4 : 4 : 0 When applied for Monthly etc. 19...
 Travelling Expenses (if any) £ : : : When received 19...

L.C. Davis
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 14 AUG 1945
 Assigned Transmit to Wokingham



Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

[5c, 10, 38.—Copyable Ink.]