

# REPORT ON BOILERS.

No. 69084

Received at London Office 17 DEC 1944

Date of writing Report 19 When handed in at Local Office 8-12-19 Port of GLASGOW.

No. in Survey held at ANNAN. Date, First Survey 11. 8. 44 Last Survey 30th November 1944

Reg. Book. on the Vic 95 A/MS 1073. (Number of Visits 8) Tons { Gross Net

Built at Thorne St. Yarmouth By whom built Richard Dunston Ltd. Crabtree (1931) Ltd. Yard No. T 577 When built 1944

Boilers made at Annan By whom made Cochran & Co. (Annan) Ltd. Boiler No. 16046 When made 1944

Owners Ministry of War Transport Port belonging to Hull

**MAIN VERTICAL DONKEY BOILER**— No. One Description Cochran Manufacturers of steel Colvilles Ltd.

Made at Annan By whom made Cochran & Co. (Annan) Ltd. When made Where fixed Working pressure 125 lbs

Tested by hydraulic pressure to 238 Date of test 30-11-44 No. of Certificate 21831 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 125 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 28-32 tons Description of riveting long. seams DR 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 1/2" 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 1/8" back 1" Mean pitch of stay tubes in nest 10.77" Pitch in outer vertical rows 8"

Diameter of tube holes FRONT stay 2 1/8" BACK stay 2 1/8" Working pressure of tube plates by rules F. 126. B. 146 Tubes: Material S.

External diameter stay 2 1/8" plain 2 1/8" Thickness stay 11/32" plain 10 L.S. 8. 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 1/2" No. of rivets and diameter of rivet holes 40 @ 31/32" Outer row pitch at ends 4 1/8"

The foregoing is a correct description,

FOR COCHRAN &amp; CO., ANNAN, LTD.

Dates of Survey while building During progress of work in shops - 19 Aug 11. 24 Sep 1. 8-12 Oct 6 20 Nov 30 Drawing No. 29465

During erection on board vessel - -

Total No. of visits 8 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.

The boiler has been constructed to the order of the Admiralty and will be sent to Messrs.

Crabtree (1931) Ltd., Great Yarmouth to be fitted in an 80 ft. Steam Lighter.

Above boiler installed as sole main boiler in 'Vic 95' by Richard Dunston Ltd. at Thorne Hull, steamed under steam, safety valves adjusted to 125 lb (F 15/32 A 3 3/64) & accumulation test held.

Boiler found satisfactory on completion of all tests.

W. S. Shields

Survey Fee ... £ 4 : 4 : } When applied for 19

Specification Travelling Expenses (if any) £ 1 : 1 : } When received 19

Committee's Minute GLASGOW 12 DEC 1944

Assigned to work on to Wokingham

Engineer Surveyor to Lloyd's Register of Shipping.