

REPORT ON BOILERS.

No. 68518

JUN 1944

Received at London Office

Date of writing Report 29.5.44 When handed in at Local Office 29.5.44 Port of GLASGOW

No. in Survey held at ANNAN Date, First Survey 14th July 1944 Last Survey 25th May, 1944

Reg. Book. "Vic 54" Nms 958 (Number of Visits 10)

on the GAINSBOROUGH J.S. WATSON & Std. Tons }
 built at 66, Yarmouth By whom built Crabtree (1931) Ltd. Yard No. 1552 When built 1944
 Boilers made at Annan By whom made Cochran & Co. (Annan) Ltd Boiler No. 16037 When made 1944
 owners Ministry of War Transport 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 1944 Where fixed _____ Working pressure 125 lbs.

Tested by hydraulic pressure to 238 Date of test 25.5.44 No. of Certificate 21732 Fire grate area 27.75 Description of safety valves Ordinary
 sq. ft.

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 Description of riveting long seams DR lap Diameter of rivet holes 31/32" Whether punched or drilled drilled
 tons

Pitch of rivet 2.962" 3.03" 2.87" Lap of plating 4 1/2" Per centage of strength of joint Rivets 68.9 Working pressure of shell by rules 129.7 Plates 66.4

Thickness of shell crown plate 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 R.126B.146 Tubes: Material S.
 plain 2 9/16" plain 2 1/8"

External diameter stay 2 1/8" Thickness stay 11/32" No. of threads per inch 9 Pitch of tubes 4" x 3 1/2"
 plain 2 1/8" plain 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" No. of rivets and diameter of rivet holes 40 @ 31/32" Outer row pitch at ends 4 1/2"

H.S. = 500 (See specification dated 4.11.43 attached to 80'-0 light's correspondence)

The foregoing is a correct description, Carfax Manufacturer
 FOR COCHRAN & CO. ANNAN, LTD.

Dates of Survey while building { During progress of work in shops - - } 1944 Jul 4 & Aug 8-16-30 Sep 14-21-28 May 5-19-25
 { During erection on board vessel - - }
 Total No. of visits 10 Drawing No. 29465.

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 and in accordance with the Admiralty Specification.

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 in Vic 54 at Hull, examined under steam, safety valves adjusted to 125 lb (Ring sizes F & A 5/8"), accumulation test held and found satisfactory on completion. W.S. Shields.

Survey Fee ... £ 4 : 4 : } When applied for Nov 4/4 19...
 Specification Travelling Expenses (if any) £ 1 : 1 : } When received 19...

Committee's Minute GLASGOW 30 MAY 1944
 Assigned Dravenit to Wokingham

L.C. Davis
 Engineer Surveyor to Lloyd's Register of Shipping.
 FRI. 29 DEC 1944
 See file made by W.S. Shields