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IN D.O.

REPORT ON BOILERS.

No. 69644

30 MAY 1945

Received at London Office

Date of writing Report 19... When handed in at Local Office 28.5.1945^{HS} Port of **GLASGOW.**

No. in Survey held at **ANNAN** Date, First Survey 21.12.44 Last Survey 18.5.1945.

Reg. Book. on the **Vic 96** ^{A/MS 1074} (Number of Visits 10) Gross 14.6 Tons Net 51

Built at **Thorn Hill** By whom built **Richard Dunston Ltd.** Yard No. **T 578** When built 1945

Boilers made at **ANNAN** By whom made **COCHRAN & CO. ANNAN LD.** Boiler No. **16457** When made 1945

Owners **Ministry of War Transport** Port belonging to **Hull**
managed by Messrs. Rott & Wilson of Hull

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

Made at **Annan** By whom made **Cochran & Co. (Annan) Ed.** When made **1945** Where fixed Working pressure **125 lbs**

tested by hydraulic pressure to **238** Date of test **18.5.45** No. of Certificate **21934** Fire grate area **26.75** Description of safety valves **Ordinary**
 sq.ft.

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** Description of riveting long. seams **DR Lap** Diameter of rivet holes **31/32"** Whether punched or drilled **drilled** Pitch of rivets **2.952" 3.03" 2.87"** 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 1/16"** plain **2 1/16"** BACK stay **2 1/8"** plain **2 1/8"** Working pressure of tube plates by rules **F126 B146** Tubes: Material **S.**

External diameter stay **2 1/8"** plain **2 1/8"** Thickness stay **11/32"** plain **10 L.S.G.** No. of threads per inch **9** Pitch of tubes **4" x 3 1/2"**

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,

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

Dates of Survey while building { During progress of work in shops - - } 1944 Dec 21 1945 Jan 10 & 22 & 24 & 26 & 28 & 30 May 3.18
 { 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 construction under Special Survey.

To the order of the Admiralty for a Steam Lighter building by Messrs. Crabtree (1931) Ltd., Great Yarmouth.

Above boiler installed as sole main boiler in Vic 96 by Richard Dunston Ltd. at Thorn Hill, examined under steam, safety valves adjusted to 125 lb (P 2 1/32 & 1 7/32) accumulation test held. Boilers found satisfactory on completion of all tests
W S Shield
 Hull.

Survey Fee £ 4 : 4 : } When applied for *Mar 45* 19.....
 Travelling Expenses (if any) £ : : } When received 19.....

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

21 SEP 1945

Committee's Minute **GLASGOW 29 MAY 1945**

Assigned *Leamcruit to Wokingham* *S. F. E. Machy, rpt.*

Lloyd's Register Foundation

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