

REPORT ON BOILERS.

No. 68280.

16 NOV 1944

Rpt. 50
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Date of writing Report 19 When handed in at Local Office 30.3.1944 Port of **GLASGOW.**
 No. in Survey held at **ANNAN** Date, First Survey 16.11.43 Last Survey 24.3.1944
 Reg. Book. on the **"EMPIRE RAWLINSON"** (Number of Visits 9) Tons {Gross Net
 Built at **PORT GLASGOW** By whom built **LITHGOWS LTD** Yard No. **994** When built **1944**
 Boilers made at **ANNAN** By whom made **COCHRAN & CO. ANNAN LD.** Boiler No. **15667** When made **1944**
 Owners **M.O.W.T.** 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 **1944** Where fixed **Alternate Exhaust gas** Working pressure **105 lbs**
 tested by hydraulic pressure to **208** Date of test **24.3.44** No. of Certificate **21688** Fire grate area **11.7** Description of safety valves **ordinary.**
 No. of safety valves **2** Area of each **4.9 sq. in.** Pressure to which they are adjusted **105.** If fitted with easing gear **Yes** If steam from main boilers can enter the donkey boiler
 Diameter of donkey boiler **6'6"** Length **18'3"** Material of shell plates **S** Thickness **15" / 32** **21" / 32**
 Range of tensile strength **28-32 tons** Description of riveting long. seams **D.R. Lap** Diameter of rivet holes **27" / 32** Whether punched or drilled **drilled** Pitch of rivets **2.74" 2.76" 2.68"** Lap of plating **4 1/2"** Per centage of strength of joint Rivets **70.9** Working pressure of shell by rules **110** Thickness of shell crown plates **7" / 8** **13" / 32** Radius of do. **3'3"** No. of stays to do. - Diameter of stays - Diameter of furnace - Top - Bottom **5'6"** Length of furnace - Thickness of furnace side plates **1 1/2"** Description of joint **Seamless** Working pressure of furnace by rules **125** Thickness of Ogee ring **7" / 8** Working pressure of Ogee ring by rules **109** Thickness of furnace crown plates **1 1/2"** Radius of do. **2'9"** Stayed by **Hemisphere** Diameter of uptake **21 1/2" x 25"** Thickness of uptake plates **9" / 16** Thickness of tube plates front **3" / 16** back **2 1/2" / 16** Mean pitch of stay tubes in nest **10.05"** Pitch in outer vertical rows **6 1/2"**
 Diameter of tube holes FRONT stay **2 1/8"** BACK stay **2"** Working pressure of tube plates by rules **F.116. B.130** Tubes: Material **S**
 External diameter stay **2 1/8"** plain **2 1/8"** Thickness stay **1 1/8"** plain **1 1/8"** L.S.G. No. of threads per inch **9** Pitch of tubes **3 1/8" x 3"**
 Working pressure by rules **215** 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 @ 27" / 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 - (1943 Nov 16 Dec 9, 1944 Jan 14 Feb 7, 27 Mar 8, 16, 24)
 During erection on board vessel - - -
 Total No. of visits **9.** Drawing No. **27979 G.**
 Is the approved plan of boiler forwarded herewith **No.**
Retained for duplicate case.

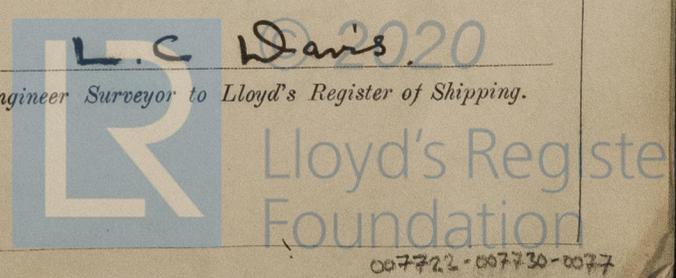
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 The materials and workmanship are good.
 The boiler has been constructed under special survey.
 The boiler will be sent to Greenock to be fitted on board the vessel.

This boiler has been efficiently installed in the vessel & its safety valves adjusted under steam 105 lbs/sq. in. Please see machinery report for recommendations

*Charles J Hunter
Greenock*

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

Committee's Minute **GLASGOW - 4 APR 1944** 14 NOV 1944
 Assigned *Deferred for completion*



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