

# REPORT ON BOILERS.

No. 66791.

Date of writing Report 19 10 When handed in at Local Office 15.3.1943 Port of Glasgow  
 No. in Survey held at Annan Date, First Survey 25-8-1942 Last Survey 11-3-1943  
 Reg. Book. on the TWIN Se. M.V. "RIPPIINGHAM GRANGE" (Number of Visits 18) (Gross Tons) (Net Tons)  
 Built at Newcastle By whom built R.W. Hawthorn Leslie & Co. Ltd. Yard No. 653 When built 1943  
 Boilers made at Annan By whom made Cochran & Co. Annan Ltd. Boiler No. 15462 When made 1943  
 Owners Port belonging to

**VERTICAL DONKEY BOILER**— No. one Description Cochran Manufacturers of steel Gohillies Ltd  
 Made at Annan By whom made Cochran & Co. Annan Ltd. When made 1943 Where fixed at aft of Eg. Rom Working pressure 125  
 tested by hydraulic pressure to 238 Date of test 11-3-43 No. of Certificate 21346 Fire-grate area oil Description of safety valves ordinary  
 No. of safety valves 2 Area of each 7.06" Pressure to which they are adjusted 125 lb/ft<sup>2</sup> fitted with easing gear yes If steam from main boilers can enter the donkey boiler  
 Diameter of donkey boiler 8'-0" Length 18'-9" Material of shell plates S Thickness 2 1/32" 2 5/32"  
 Range of tensile strength 28-32 tons Description of riveting long. seams DR lap Diameter of rivet holes 1 1/2" Whether punched or drilled drilled Pitch of rivets 3-09, 3-16, 3" Lap of plating 5" Per centage of strength of joint Rivets 67.5 Plates 66.6 Working pressure of shell by rules 125 Thickness of shell crown plates 1 9/32" 1 1/16" Radius of do. 4'-0" No. of stays to do. - Diameter of stays - Diameter of furnace—Top - Bottom 7'-0" Length of furnace - Thickness of furnace side plates 2 3/32" Description of joint seamless Working pressure of furnace by rules 143 Thickness of Ogee ring 1 1/16" Working pressure of Ogee ring by rules 130 Thickness of furnace crown plates 2 3/32" Radius of do. 3'-6" Stayed by hemisphere Diameter of uptake 20" x 2 3/4" Thickness of uptake plates 5/8" Thickness of tube plates front 1 1/32" back 3/32" Mean pitch of stay tubes in nest 10.9" Pitch in outer vertical rows 9" Diameter of tube holes FRONT stay 2 1/16" plain 2 9/16" BACK stay 2 1/2" plain 2 1/2" Working pressure of tube plates by rules F127. B134 Tubes: Material S External diameter stay 2 1/2" plain 2 1/2" Thickness stay 1 1/32" plain 10 L56 No. of threads per inch 9 Pitch of tubes 4 1/2" x 3 9/16" 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 @ 1 1/2" Outer row pitch at ends 4.03"

The foregoing is a correct description,  
 L. R. Manufacturer

FOR COCHRAN & CO., ANNAN, LTD.  
 Dates of Survey while building: During progress of work in shops - 1942 Aug 25, Sep 10, 30, Oct 16, 27, Nov 4, 10, 17, 30, 1943 Jan 14, 21, 28, Feb 3, 10, 25, Mar 4, 11.  
 Total No. of visits 18.  
 Drawing No. 27942 A  
 Is the approved plan of boiler forwarded herewith No retained for duplicate use (Boiler No. 15465)

**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. It will be sent to Newcastle to be fitted in the vessel.

This boiler has been efficiently fitted on board the above vessel.  
 Safety valves adjusted under steam to the above pressure.  
 F. W. Shilston.

Survey Fee ... £ 4 : 4 : } When applied for Mon 2/3  
 Travelling Expenses (if any) £ : : } When received 19

Committee's Minute GLASGOW 16 MAR 1943  
 Assigned referred for completion

Shilston  
 Engineer, Surveyor to Lloyd's Register of Shipping.  
 TUES. 30 NOV 1943  
 see minute Lloyd's Register on New T.O. Report

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

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