

## REPORT ON BOILERS.

No. 66841

24 MAR 1943

Date of writing Report 10 When handed in at Local Office 22.3.10 Port of Glasgow  
 No. in Survey held at Annan Date, First Survey 6.11.42 Last Survey 17-3-1943  
 Reg. Book. on the T.W. Sc M.V. "RIPPIUGHAM GRANGE" (Number of Visits 13) Tons Gross Net  
 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. 15463 When made 1943  
 Owners Port belonging to

VERTICAL DONKEY BOILER— No. one Description Cochran Manufacturers of steel Cochran & Co. Ltd.  
 Made at Annan By whom made Cochran & Co. Annan Ltd. When made 1943 Where fixed at after end of Engine Room Working pressure 125  
 tested by hydraulic pressure to 238 Date of test 17-3-43 No. of Certificate 21355 Fire grate area 62 Description of safety valves ordinary  
 No. of safety valves 2 Area of each 7.064" Pressure to which they are adjusted 125 lb/sq ft fitted with easing gear yes If steam from main boilers can  
 enter the donkey boiler Diameter of donkey boiler 7'-6" Length 19'-6" Material of shell plates S Thickness 5" 25" 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 2.88" 2.85" 2.95" Lap of plating 4 3/4" Per centage of strength of joint Rivets 65.7 Working pressure of shell by  
 rules 127.5 Thickness of shell crown plates 9" 1 1/2" Radius of do. 3'-9" No. of stays to do. - Diameter of stays - Diameter of  
 furnace—Top - Bottom 6'-6" Length of furnace - Thickness of furnace side plates 5" 8" Description of joint seamless Working  
 pressure of furnace by rules 134 Thickness of Ogee ring 1 1/2" Working pressure of Ogee ring by rules 132 Thickness of furnace  
 crown plates 5" 8" Radius of do. 3'-3" Stayed by hemisphere Diameter of uptake 20" x 28 1/2" Thickness of uptake  
 plates 9" 16" Thickness of tube plates front 1 1/2" back 1 1/2" Mean pitch of stay tubes in nest 10.97" Pitch in outer vertical rows 6 1/2"  
 Diameter of tube holes FRONT stay 2 3/8" plain 2 1/8" BACK stay 2" plain 2" Working pressure of tube plates by rules F134.B156 Tubes: Material S  
 External diameter stay 2" Thickness stay 3/32" No. of threads per inch 9 Pitch of tubes 3 1/4" x 2 1/8"  
 Working pressure by rules 215 Manhole compensation; Size of opening in shell plate 21" x 14" 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,

Cochran.

Manufacturer

Dates of Survey while building During progress of work in shops - 1942. Nov 6. 19. Dec 4. 10. 30 1943 Jan 14. 21. 28 Feb 3. 18. Mar 4. 11. 17 Drawing No. 27905 B  
 During erection on board vessel - - -  
 Total No. of visits 13 Is the approved plan of boiler forwarded herewith NO  
 Retained for duplicate case

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;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.

RB  
 22/3/43

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

J.D. Philston.

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

Committee's Minute GLASGOW 23 MAR 1943  
 Assigned TRANSMIT TO LONDON

L.D. Davis  
 Engineer Surveyor to Lloyd's Register of Shipping.  
 TUES 30 NOV 1943

See minute  
 on New J.E. Rpt  
 Lloyd's Register  
 Foundation

002790-002797-0062