

## REPORT ON BOILERS.

No. 66855.

31 MAR 1943

Date of writing Report 19 When handed in at Local Office 29. 3. 1943 Port of Glasgow  
 No. in Survey held at Annan Date, First Survey 3. 9. 42 Last Survey 24. 3. 1943  
 Reg. Book. on the TWIN SC. M.V. "RIPPIINGHAM GRANGE" (Number of Visits 14) Gross Tons Net  
 Built at Newcastle By whom built Hawthorn Leslie & Co. Ltd. Yard No. 653 When built 1943  
 Boilers made at Annan By whom made Hawthorn Leslie & Co. Ltd. Boiler No. 15464 When made 1943  
 Owners Port belonging to

VERTICAL DONKEY BOILER— No. one Description Hawthorn Manufacturers of steel Hawthorn Ltd.  
 Made at Annan By whom made Hawthorn & Co. Annan Ltd. When made 1943 Where fixed End of Eng Room Working pressure 125  
 tested by hydraulic pressure 238 Date of test 24. 3. 43 No. of Certificate 21365 Fire grate area 52 Description of safety valves ordinary  
 No. of safety valves 2 Area of each 7.06 sq. 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'-6" Length 19'-6" Material of shell plates S Thickness 5" 3/8" 2 5/8"  
 Range of tensile strength 28-32 ton Description of riveting long. seams NR Lap Diameter of rivet holes 3 1/2" Whether punched or  
 drilled drilled Pitch of rivets 2.88" 2.86" 2.95" Lap of plating 4 3/4" Per centage of strength of joint Rivets 657 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 2 3/2" 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 15/16"  
 plain 2" Thickness plain 10 LSG. 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 @ 3 1/2" Outer row pitch at ends 4 7/8"

The foregoing is a correct description, H.B.

T.A.R.

Manufacturer

FOR COCHRAN &amp; CO. ANNAN, LTD.

Dates of Survey while building { During progress of work in shops - 1942 Sep 3 Nov 6. 19 Dec 4 10. 30 1943 Jan 14. 21. 28 Feb 4. 18. Mar 4 11. 24  
 { During erection on board vessel - - -  
 Total No. of visits 14

Drawing No. 27905 B

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 on board the vessel.

Gib  
29/3/43

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

J. W. Philston

Survey Fee ... £ 4 : 4 : } When applied for 10/4/43 19.....  
 Travelling Expenses (if any) £ : : } When received 19.....

Committee's Minute GLASGOW 30 MAR 1943

Assigned Supered for completion

J. H. Davis  
 Engineer Surveyor to Lloyd's Register of Shipping.

TUES. 30 NOV 1943

see minute

on Nov 28. 43

002790-002797-0063