

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. 2. 1943
 Reg. Book. on the TWIN SC. M.V. "RIPPINGHAM GRANGE" (Number of Visits 14) (Gross Tons) (Net Tons)
 Built at Newcastle By whom built Hawthorn Leslie & Co. Ld Yard No. 653 When built 1943
 Boilers made at Annan By whom made Bowman & Co Annan Ld Boiler No. 15464 When made 1943
 Owners Port belonging to

VERTICAL DONKEY BOILER— No. one Description Bowman Manufacturers of steel B. Shillies Ltd
 Made at Annan By whom made Bowman & Co Annan Ld When made 1943 Where fixed End of Eng Room Working pressure 125
 tested by hydraulic pressure to 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 / sq 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 5/8" 25/32"
 Range of tensile strength 28-32 tons Description of riveting long. seams NR 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 657 Plates 66.5 Working pressure of shell by rules 127.5 Thickness of shell crown plates 9/16" 1 1/32" 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 23 1/2" Thickness of uptake plates 9/16" Thickness of tube plates front 1 1/32" back 1 1/16" Mean pitch of stay tubes in nest 10.97" Pitch in outer vertical rows 6 1/2"
 Diameter of tube holes FRONT stay 2 3/16" plain 2 1/16" 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 3/4" x 2 15/16"
 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 @ 31/32" Outer row pitch at ends 4 7/8"

The foregoing is a correct description, A.S.B.
 T. Rex. Manufacturer
 FOR COCHRAN & 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. 11. 18. Mar 4. 11. 24 } Drawing No. 27905 B
 { During erection on board vessel - - }
 Total No. of visits 14 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. It will be sent to Newcastle to be fitted on board the vessel.

9th 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 19. 19.
 Travelling Expenses (if any) £ : : } When received 19. 19.

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

TUE. 30 NOV 1943
 see minute on Nov 28 Rpt.
 002790-002797-0063

Committee's Minute GLASGOW 30 MAR 1943

Assigned Reported for completion

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