

DEC 30 1939

Sld. No. 32769

# REPORT ON BOILERS.

Gls No. 61490

1-6 SEP 1939

Date of writing Report 19 When handed in at Local Office 4.9.39 Port of Glasgow 25  
 No. of Survey held at Annan Date, First Survey 14.6.39 Last Survey 18.8.1939  
 Reg. Co. on the S.S. No 654 M/V "RODSLEY" (Number of Visits 8) Gross 5000 Tons Net 3014  
 Master Built at Sunderland By whom built W. Doxford & Sons Ltd When built 1939  
 Boilers made at Annan By whom made Cochran & Co. Annan Ltd (No. 14504) When made 1939  
 Owners Thomasson Shipping Co Ltd Port belonging to Newcastle.

VERTICAL DONKEY BOILER— No. One Description COCHRAN COMPOSITE Manufacturers of steel Colvilles Ltd  
 Made at Annan By whom made Cochran & Co. Annan Ltd When made 1939 Where fixed upper boiler Working pressure 120  
 tested by hydraulic pressure to 230 Date of test 18.8.39 No. of Certificate 20430 Fire grate area 38.5 Description of safety valves ENCLOSED SPRING  
 No. of safety valves 2 Area of each 7.06 sqm. Pressure to which they are adjusted 120 If fitted with easing gear yes If steam from main boilers can enter the donkey boiler ✓  
 Diameter of donkey boiler 8'-0" Length 17'-3" Material of shell plates Steel Thickness 13" & 21" & 32"  
 Range of tensile strength 28/32 Description of riveting long. seams D.R. lap. Diameter of rivet holes 1 1/32" Whether punched or drilled drilled Pitch of rivets 3-16", 3-16", 5-32" Lap of plating 5" Per centage of strength of joint Rivets 66.27 Plates 65.61 Working pressure of shell by rules 125.4 Thickness of shell crown plates 1 1/32" Radius of do. 4'-0" No. of stays to do. 23 Diameter of stays 3/32" Diameter of furnace—Top — Bottom 7'-0" Length of furnace — Thickness of furnace side plates 3/32" Description of joint Seam less Working pressure of furnace by rules 144.1 Thickness of Ogee ring 1 1/32" Working pressure of Ogee ring by rules 124.4 Thickness of furnace crown plates 3/32" Radius of do. 3'-6" Stayed by hemisphere Diameter of uptake 21 1/2" x 26" Thickness of uptake plates 9/16" Thickness of tube plates front 1 1/4" back 1 1/4" Mean pitch of stay tubes in nest 9.4789.7 Pitch in outer vertical rows 6 3/8" & 5 1/4" Diameter of tube holes FRONT stay 2 1/8" x 1 1/8" ACK stay 2 3/8" x 1 1/8" Working pressure of tube plates by rules 122 FTP Tubes: Material L.W. Wrought Iron 2" Tubes. External diameter stay 2 1/8" x 1 1/8" Thickness stay 11/32" No. of threads per inch 9 Pitch of tubes 3 3/16" & 3-13" & 2 5/8" x 2 1/16" Working pressure by rules 120 lbs (1 1/2" Stay Tubes) Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 6" x 31/32" No. of rivets and diameter of rivet holes 36 x 1 1/32" Outer row pitch at ends 3.89"

The foregoing is a correct description.

T. Doxford Manufacturer.

Dates of Survey while building During progress of work in shops 1939 June: 14. 23. 28 July: 3. 14. 28 Aug: 3. 18. 25 Drawing No. E 38526  
 During erection on board vessel - - -  
 Total No. of visits 8  
 Is the approved plan of boiler forwarded herewith yes

## 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 and is being despatched to Sunderland for fitting on board the vessel.  
 Heating surface.— Oil fired 537 ft<sup>2</sup>  
 Exhaust Pass 435  
 Total 972.

4/9/39 This boiler has been securely fixed on board the vessel & fitted to burn oil fuel (F.P. above 150°F). Examined under steam & safety valves adjusted in accordance with rule requirements  
 In recommendation please see Memo Cpt  
 W. Doxford

Survey Fee ... £ 5 : 6/- When applied for 5 SEP 1939  
 Travelling Expenses (if any) £ : : When received MONTHLY ACCOUNT

Committee's Minute GLASGOW 5 SEP 1939  
 Assigned TRANSMIT TO LONDON

James Crawford  
 Engineer Surveyor to Lloyd's Register of Shipping.  
 12 JAN 1940  
 Lloyd's Register Foundation  
 010624 - 010630 - 0113