

# REPORT ON BOILERS.

Std. No. 32174

Sl. No. 58528

Received at London Office JUN 23 1937

Date of writing Report 19. 6. 1937 When handed in at Local Office Port of Glasgow  
 No. in Survey held at Annan Date, First Survey 28. 1. 37 Last Survey 10-6- 1937  
 Reg. Book. on the M/V TROMA (Number of Visits 16) (BOILER N: 13535) Tons { Gross Net  
 Master Built at Sunderland By whom built Wm. Wigham & Sons Ltd When built 1937  
 Boilers made at Annan By whom made Cochran & Co Annan Ltd When made 1937  
 Owners Stephen Sutton Ltd A/S J. Ludwig Mossen's Rederi Port belonging to Bergen

VERTICAL DONKEY BOILER— No. one Description Cochran Manufacturers of steel Lochmills Ltd  
 Made at Annan By whom made Cochran & Co Annan Ltd When made 1937 Where fixed Upper boiler Working pressure 120  
 tested by hydraulic pressure to 230 Date of test 10-6-37 No. of Certificate 19968 Fire grate area — Description of safety valves Enclosed spring  
 No. of safety valves 2 Area of each 7.06 Pressure to which they are adjusted 20 lbs. 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 21/32" 13/16"  
 Range of tensile strength 28-32 Description of riveting long. seams D.R. Lap Diameter of rivet holes 1 1/2" Whether punched or  
 drilled drilled Pitch of rivets 3" 3.154" 3.164" Lap of plating 5 Per centage of strength of joint Rivets 66.2 Plates 65.6 Working pressure of shell by  
 rules 125.4 Thickness of shell crown plates 1 1/2" 1 1/2" Radius of do. 4'-0" No. of stays to do. none Diameter of stays — Diameter of  
 furnace—Top — Bottom 7'-0" Length of furnace — Thickness of furnace side plates 23/32" Description of joint welded Working  
 pressure of furnace by rules 144 Thickness of Ogee ring 1 1/2" Working pressure of Ogee ring by rules 124.4 Thickness of furnace  
 crown plates 23/32" Radius of do. 3'-6" Stayed by Hemisphere Diameter of uptake 21 1/2" x 25" 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 9.48 7.97 8 Pitch in outer vertical rows 6.37 5.25  
 Diameter of tube holes FRONT stay 2 3/8 x 1 1/4 BACK stay 2 3/8 x 1 1/4 Working pressure of tube plates by rules F122 B196 Tubes: Material steel  
 External diameter stay 2 1/2 plain 2 1/8 Thickness stay 1/32 plain 10 W.G. No. of threads per inch 9 Pitch of tubes 3.187 x 3.13. 2 7/8 x 2 7/8  
 Working pressure by rules 215. 165. 146 Manhole compensation; Size of opening in shell plate 16 x 12 Section of compensating  
 ring 28" dia x 31/32 No. of rivets and diameter of rivet holes 36 @ 1 1/2" Outer row pitch at ends 3.89"

FOR COCHRAN & CO. ANNAN, LTD.  
 The foregoing is a correct description.  
 W. W. Wigham, Manufacturer.  
 WORKS MANAGER.

Dates of Survey while building { During progress of work in shops - 1937 Jan. 28 Feb. 4. 11. 25 Mar. 12. 17. 23 Apr. 1. 15 Drawing No. E33292  
 { During erection on board vessel - 22. May. 6. 11. 20 June. 4. 8. 10  
 Total No. of visits 16 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. It will be  
 fitted on board the vessel at Sunderland.

19/6/37  
 This boiler has been efficiently fitted on board and its safety  
 valves have been adjusted under steam in accordance  
 with the requirements of the Rules.  
 H. R. Home  
 10. 8. 37.

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

MONTHLY ACCOUNT

Committee's Minute GLASGOW 22 JUN 1937  
 Assigned TRANSMIT TO LONDON  
 See Std. No. 32174  
 Engineer Surveyor to Lloyd's Register of Shipping.  
 Lloyd's Register Foundation

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