

# REPORT ON BOILERS.

No. 59015  
NOV 3 1937

Date of writing Report 19 11 37 When handed in at Local Office 11 37 Port of Glasgow  
 No. in Survey held at Annan Date, First Survey 9.9.37 Last Survey 22-10-1937  
 Reg. Book. on the BOILER No. 13838 (Number of Visits 5) (Gross Tons) Net  
 Master Built at Naleskov By whom built A. Kiesel & Kabet. Naleskov Skibvaerft When built 1937  
 Boilers made at Annan By whom made Buchan & Co Annan Ltd When made 1937  
 Owners Port belonging to

**VERTICAL DONKEY BOILER**— No. one Description composite vertical Manufacturers of steel Buchan Ltd  
 Made at Annan By whom made Buchan & Co Annan Ltd When made 1937 Where fixed Working pressure 100  
 tested by hydraulic pressure to 200 lb Date of test 22-10-37 No. of Certificate 20039 Fire grate area — Description of safety valves Enclosed spring  
 No. of safety valves 2 Area of each 3.40 Pressure to which they are adjusted If fitted with easing gear yes If steam from main boilers can enter the donkey boiler — Diameter of donkey boiler 6'-0" Length 16'-3" Material of shell plates steel Thickness 9" 7" 7"  
 Range of tensile strength 29-32 Description of riveting long. seams WR lap Diameter of rivet holes 25" 32" Whether punched or drilled drilled Pitch of rivets 2.66" 2.63" 2.5" Lap of plating 3 7/8" Per centage of strength of joint Rivets 67.7 Plates 69 Working pressure of shell by rules 108 Thickness of shell crown plates 13/32 & 13/16 Radius of do. 3'-0" No. of stays to do. — Diameter of stays — Diameter of furnace—Top — Bottom 5'-0" Length of furnace — Thickness of furnace side plates 2" Description of joint seamless Working pressure of furnace by rules 137 Thickness of Ogee ring 13/16 Working pressure of Ogee ring by rules 101 Thickness of furnace crown plates 5/8" Radius of do. 2'-6" Stayed by hemisphere Diameter of uptake 15" x 18" Thickness of uptake plates 9/16 Thickness of tube plates front 1 1/16 2 3/16 back 2 3/16 Mean pitch of stay tubes in nest 8", 11 1/4", 7.6" Pitch in outer vertical rows 4 3/4" & 6 1/2"  
 Diameter of tube holes FRONT stay 1 1/16 2 3/16 plain 1 9/16 2 7/16 BACK stay 1 1/2 2 plain 1 1/2 2 Working pressure of tube plates by rules F 115 B 128 Tubes: Material steel  
 External diameter stay 1 1/2 2 Thickness stay 1 1/16 2 3/16 plain 1 1/2 2 No. of threads per inch 9 Pitch of tubes 2.4 x 2 3/8" 3 x 3 1/4"  
 Working pressure by rules 155 Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 6" x 1 1/16 THICK No. of rivets and diameter of rivet holes 36 @ 25/32 Outer row pitch at ends 3 1/16"

FOR COCHRAN & CO., ANNAN LTD  
 The foregoing is a correct description,  
 T. Forster  
 WORKS MANAGER

Dates of Survey while building { During progress of work in shops - 1937 Sep.: 9. 16 Oct.: 1. 7. 22  
 { During erection on board vessel - - -  
 Total No. of visits 5  
 Drawing No. 22989  
 Is the approved plan of boiler forwarded herewith yes

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)  
 The workmanship and materials are good.  
 The boiler has been constructed under special survey.  
 The boiler to be sent to Denmark to be fitted in the vessel.  
 11/11/37

Survey Fee ... £ 4 : 4 : } When applied for ... 19...  
 Travelling Expenses (if any) £ : : } When received ... 19...  
 COMMITTEE'S MINUTE  
 GLASGOW 2- NOV 1937  
 Assigned TRANSMIT TO LONDON  
 FRI 28 JAN 1938  
 7.6. 10433  
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