

# REPORT ON BOILERS.

No. 58882

Date of writing Report 28. 9. 37 When handed in at Local Office 28. 9. 37 Port of Glasgow Received at London Office SEP 30 1937  
 No. in Survey held at Annan Date, First Survey 27. 5. 37 Last Survey 20-9-1937  
 Reg. Book. on the BOILERS No. 13614-5 for the M/V CAPE TOWN CASTLE (Number of Visits 15) (Gross Tons Net)  
 Master J. M. [Signature] Built at Belfast By whom built Harland & W. of Belfast, No. 986 When built 1937  
 Boilers made at Annan By whom made Buchan & Co. Annan Ltd. When made 1937  
 Owners Union Castle Mail S.S. Co. Ltd. Port belonging to London

**VERTICAL DONKEY BOILER**— No. two Description vertical Manufacturers of steel 6 Shells 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 Date of test 20-9-37 No. of Certificate 20027-8 Fire grate area 374 1/2 Description of safety valves High lift  
 No. of safety valves 2 Area of each 3.14 Pressure to which they are adjusted 100 If fitted with easing gear yes If steam from main boilers can enter the donkey boiler no  
 Diameter of donkey boiler 8'-0" Length 18'-9" Material of shell plates S Thickness 9/16" 1 1/16"  
 Range of tensile strength 28-32 Description of riveting long. seams WR Lap Diameter of rivet holes 29/32" Whether punched or drilled drilled  
 Pitch of rivets 2.906. 2.886. 2.742 Lap of plating 4 1/2" Per centage of strength of joint 64.8 Working pressure of shell by rules 104  
 Thickness of shell crown plates 1" 8/16" Radius of do. 48" No. of stays to do. 104 Diameter of stays 1 1/8" Diameter of furnace—Top 7'-0" Bottom 7'-0" Length of furnace 18'-9" Thickness of furnace side plates 5/8" Description of joint Seamless Working pressure of furnace by rules 124  
 Thickness of Ogee ring 1" Working pressure of Ogee ring by rules 117 Thickness of furnace crown plates 5/8" Radius of do. 42" Stayed by hemisphere Diameter of uptake 21 1/2" - 25" Thickness of uptake plates 9/16" Thickness of tube plates front 2 7/32" back 13/16" Mean pitch of stay tubes in nest 13.44" Pitch in outer vertical rows 9"  
 Diameter of tube holes FRONT stay 2 1/16" plain 2 9/16" BACK stay 2 1/2" plain 2 1/2" Working pressure of tube plates by rules F102.3117 Tubes: Material Iron  
 External diameter stay 2 1/2" plain 2 1/2" Thickness stay 11/32" plain 11/32" No. of threads per inch 9 Pitch of tubes 4 1/2" x 3 9/16"  
 Working pressure by rules 125 Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 28" dia x 27/32" No. of rivets and diameter of rivet holes 36 @ 29/32" Outer row pitch at ends 3.949"  
 FOR COCHRAN & CO., ANNAN, LTD.  
 The foregoing is a correct description,  
 [Signature] Manufacturer.  
 WORKS MANAGER

Dates of Survey while building: During progress of work in shops - 1937 May: 27 June: 8-17 July: 8-15-30 Aug: 5-10-17-27-27 Drawing No. E. 35100  
 During erection on board vessel - Sep.: 2. 9. 16. 20  
 Total No. of visits 15  
 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 boilers have been constructed under special survey.  
The boilers will be sent to Belfast to be fitted in the vessel.  
28/9/37 These boilers have been efficiently installed & fastened on the stools on the tank top. The safety valves were adjusted under steam accumulation tests were satisfactory.  
 Charles J. Hunter  
 Belfast  
 9/2/38.

Survey Fee ... .. £ 4 : 4 : } When applied for ..... 19.....  
 Travelling Expenses (if any) £ : : } When received ..... 19.....  
 COMMITTEE'S MINUTE GLASGOW 23 SEP 1937  
 Assigned TRANSMIT TO LONDON  
 MONTHLY ACCOUNT  
 [Signature] Engineer Surveyor to Lloyd's Register of Shipping.  
 FRI. 22 APR 1938  
 See Bel 16/12/28  
 015348-015354-0046

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

