

## REPORT ON BOILERS.

No. 59558

Date of writing Report 19 When handed in at Local Office 26.3.38 Received at London Office MAR 30 1938  
 No. in Survey held at Annan Date, First Survey 10.12.37 Last Survey 24th March 1938  
 Reg. Book. 73547 on the BOILER No 14036 for the T.W. S. M. V. DURBAN CASTLE (Number of Visits 15) Gross Tons Net  
 Master Built at Belfast By whom built Harland & Wolff Ltd. 1987 When built 1938  
 Boilers made at Annan By whom made Lochran & Co Annan Ltd. When made 1938  
 Owners Union Castle Mail S.S. Co. Ltd. Port belonging to

VERTICAL DONKEY BOILER— No. one Description Lochran Manufacturers of steel Lochan Ld.  
 Made at By whom made When made Where fixed Working pressure 100  
 tested by hydraulic pressure to 200 Date of test 24.3.38 No. of Certificate 20140 Fire grate area 26.750 Description of safety valves Enclosed opening  
 No. of safety valves 2 Area of each 4.90 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 7'-0" Length 17'-0" Material of shell plates steel Thickness 3" 5/8"  
 Range of tensile strength 28-32 tons Description of riveting long. seams DR lap Diameter of rivet holes 21/32 Whether punched or drilled Pitch of rivets 2-7/32 2-6/8 2-13/16 Lap of plating 4 1/4 Per centage of strength of joint Rivets 6525 Plates 691 Working pressure of shell by rules 105 Thickness of shell crown plates 7/8 1/16 Radius of do. 3'-6" No. of stays to do. Diameter of stays Diameter of furnace—Top Bottom 6'-0" Length of furnace Thickness of furnace side plates 17/32 Description of joint seamless Working pressure of furnace by rules 122 Thickness of Ogee ring 7/8 Working pressure of Ogee ring by rules 101 Thickness of furnace crown plates 17/32 Radius of do. 3'-0" Stayed by Hemisphere Diameter of uptake 15" x 23" Thickness of uptake plates 9/16 Thickness of tube plates front 13/16 back 13/16 Mean pitch of stay tubes in nest 13 1/2 Pitch in outer vertical rows 8"  
 Diameter of tube holes FRONT stay 2 1/2 plain 2 1/2 BACK stay 2 1/2 plain 2 1/2 Working pressure of tube plates by rules F102.8116 Tubes: Material Iron  
 External diameter stay 2 1/2 Thickness stay 5/32 No. of threads per inch 9 Pitch of tubes 3 3/4 x 4"  
 Working pressure by rules 125 Manhole compensation; Size of opening in shell plate 16" x 12" Section of compensating ring 2'-4" dia x 11/16 No. of rivets and diameter of rivet holes 36 @ 21/32 Outer row pitch at ends 3.96"

The foregoing is a correct description,

T. Foster

Manufacturer

Dates of Survey while building { During progress of work in shops - 1937 Dec.: 10.16.30 (1938) Jan.: 6.13.20.25  
 { During erection on board vessel - Feb.: 3.9.16.24 Mar.: 3.11.16.24  
 Total No. of visits 15

Drawing No. E.36320

Is the approved plan of boiler forwarded herewith

yes

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

The materials and workmanship are good  
 The boiler has been constructed under special Survey. It is being sent to Belfast to be fitted in the vessel.

26/3/38

This boiler has been efficiently installed & fastened on a stool on the tank top in the auxiliary engine room. The safety valves were adjusted under steam accumulation test satisfactory

Charles J. Hunter

Belfast

23-12-38

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

MONTHLY ACCOUNT

Committee's Minute GLASGOW 29 MAR 1938

Assigned TRANSMIT TO LONDON

Sh. Davis

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Engineer Surveyor to Lloyd's Register of Shipping.

TUE 8 JAN 1939

Lloyd's Register Foundation

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