

## REPORT ON BOILERS.

Std. No. 29636  
 Sls. No. 47539  
 1 FEB 1928

Received at London Office  
 Date of writing Report 19 When handed in at Local Office 25.1.1928 Port of Glasgow  
 No. in Survey held at Annan Date, First Survey 21.11.27 Last Survey 24.1.28  
 Reg. Book. on the BOILER No 10732 M. V. INNESMOOR (Number of Visits) Gross 4392 Tons Net 2649  
 Master Built at Dundee By whom built Wm. Duffell & Sons Ltd When built 1928  
 Boilers made at Annan By whom made Messrs Cochran & Co. Annan Ltd When made 1928  
 Owners Mon Line Port belonging to London

VERTICAL DONKEY BOILER— No. ONE Description VERTICAL Manufacturers of steel D. G. Miller & Sons, Ltd.  
 Made at Annan By whom made Cochran & Co. Annan Ltd When made 1928 Where fixed Recum engine room Working pressure 120 lbs.  
 tested by hydraulic pressure to 230 lbs Date of test 24/1/28 No. of Certificate 17746 Fire grate area 41 sq ft Description of safety valves Spring loaded  
 No. of safety valves Two Area of each 3 sq ft Pressure to which they are adjusted 120 lbs If fitted with easing gear No. of steam from main boilers can enter the donkey boiler No main boiler Diameter of donkey boiler 8'-6" Length 19'-3" Material of shell plates Steel Thickness 23" 7" 23" 1/2"  
 Range of tensile strength 28/32 Tons Description of riveting long. seams B.P. Lap Diameter of rivet holes 1 1/8" Whether punched or drilled Gilled Pitch of rivets 3.4166", 3.294", 3.24" Lap of plating 5 3/8" Per centage of strength of joint Rivets 66.5 Plates 65.3 Working pressure of shell by rules 129.9 lbs Thickness of shell crown plates 3/32", 1/8" Radius of do. 4'-3" No. of stays to do. 4 Diameter of stays 1 1/2" Diameter of furnace—Top Hemispherical Bottom 7'-6" Length of furnace 4'-5" Thickness of furnace side plates 3/4" Description of joint Seamless Working pressure of furnace by rules 140 lbs Thickness of Ogee ring 1 1/8" Working pressure of Ogee ring by rules 131.8 lbs Thickness of furnace crown plates 3/4" Radius of do. 3'-9" Stayed by Hemispherical Diameter of uptake 18" x 28 1/2" Thickness of uptake plates 9 1/16" Thickness of tube plates front 1 1/32" back 1" Mean pitch of stay tubes in nest 11.03" Pitch in outer vertical rows 9 1/4"  
 Diameter of tube holes FRONT stay 2 1/8" plain 2 1/8" BACK stay 2 1/8" plain 2 1/8" Working pressure of tube plates by rules front 127.1 lbs back 131 lbs Tubes: Material Best 3rd  
 External diameter stay 2 1/8" plain 2 1/8" Thickness stay 1/32" plain 1/32" No. of threads per inch 9 Pitch of tubes 4 5/8" x 3 9/16"  
 Working pressure by rules 125 lbs Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 12" x 1 3/32" No. of rivets and diameter of rivet holes 36 @ 1 1/8" Outer row pitch at ends 3 7/8"

The foregoing is a correct description.

W. O. G. Miller &amp; Co., ANNAN, LIMITED Manufacturer.

Dates of Survey while building  
 During progress of work in shops— 1927 Nov. 21, 25 Dec 2, 9, 16, 20, 23 (1928) Jan 6, 12, 20, 24  
 During erection on board vessel—  
 Total No. of visits 11

Drawing No. 16044.

Is the approved plan of boiler forwarded herewith Yes

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

This boiler has been built under Survey in accordance with the Rules and approved plan.  
 Materials and workmanship Good  
 This boiler is to the order of Messrs Wm. Duffell & Sons, of Dundee and intended for their ship No 592. For classification.  
 This boiler has been satisfactorily fitted on board the vessel & the safety valves adjusted under steam.  
 For notation see machinery report.

Survey Fee ... £ 4 : 4 :  
 Travelling Expenses (if any) £ :

When applied for 19  
 When received 19  
 MONTHLY ACCOUNT

Glasgow  
 Wm. Duffell & Sons

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 25 MAY 1928

Committee's Minute GLASGOW 31 JAN 1928

Assigned TRANSMIT TO LONDON

See minute on

Std. No. 29736

009102-009110-0325

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