

## REPORT ON BOILERS.

No. 30315

Date of writing Report 21-6-1911 When handed in at Local Office 23-6-1911 Port of Glasgow. Received at London Office WED. FEB. 21, 1912  
 No. in Survey held at Motherwell N.B. Date, First Survey 20-3-1911. Last Survey 21-6-1911  
 Reg. Book. on the Vertical Donkey Boiler designated No 654 (Number of Visits 13) Gross 810.8  
 Master W. A. Inners. Built at Workington By whom built R. Williams & Son (218) Net 358.3  
 Boilers made at Glasgow By whom made Ross & Duncan When built 1912  
 Owners Maritime Provinces S.S. Co Port belonging to Glasgow. When made 1911

VERTICAL DONKEY BOILER— No. 654. Description Vertical Donkey Manufacturers of steel Messrs David Colville & Sons Ltd.  
 Made at Motherwell By whom made John Marshall & Co. When made 1911. Where fixed R. Williams & Son Ship No 218. Working pressure 90 lbs.  
 tested by hydraulic pressure to 180 lbs. Date of test 21-6-1911 No. of Certificate 11041 Fire grate area 14.7 sq ft Description of safety valves Spring loaded.  
 No. of safety valves One Area of each 4.06 sq ft Pressure to which they are adjusted 90 lbs. If fitted with easing gear Yes. If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 5'-0" Length 10'-6" Material of shell plates Steel Thickness  $\frac{3}{8}$ " Range of tensile strength 28/32 Descrip. of riveting long. seams Double Riveted Dia. of rivet holes  $\frac{13}{16}$ " Whether punched or drilled Drilled Pitch of rivets  $2\frac{3}{4}$ "  
 Lap of plating 4" Per centage of strength of joint Rivets 85.8 Plates 70.4 Working pressure of shell by rules 96 lbs. Thickness of shell crown plates  $\frac{9}{16}$ "  
 Radius of do. 5'-0" No. of Stays to do. 6 Dia. of stays  $1\frac{3}{4}$ " Diameter of furnace Top 4'-3" Bottom 4'-4" Length of furnace 4'-9"  
 Thickness of furnace plates  $\frac{1}{2}$ " Description of joint Welded. Working pressure of furnace by rules 90 lbs. Thickness of furnace crown plates  $\frac{9}{16}$ " Radius of do. 4'-3" Stayed by 6-1" stays Diameter of uptake 1'-4" Thickness of uptake plates  $\frac{1}{2}$ "  
 Thickness of water tubes  $\frac{3}{8}$ "

The foregoing is a correct description.

John Marshall Manufacturer.

Dates of Survey { During progress of work in shops - - April 21, 27, May 24, 29 June 2, 7, 8, 10, 12, 13, 17, 21  
 while building { During erection on board vessel - - -  
 Total No. of visits 13.

Is the approved plan of boiler forwarded herewith Yes &amp; advice note.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under special survey and is to the order of Messrs Ross & Duncan for shipment to Workington to be installed on R. Williams & Son's Ship No 218. The material & workmanship are good.

Survey request form

No 680 attached

This boiler has been satisfactorily fitted aboard the S.S. 'McELWAIN' and the safety valves have been tried & adjusted under steam.

M.W.

Survey Fee ... £ 2-2-0 When applied for 26/6/1911  
 Travelling Expenses (if any) £ 10-0-0 When received 18/8/1911

Committee's Minute

Glasgow

27 JUN. 1911

Assigned Transmit to London

GLASGOW

20 FEB. 1912

See minute on 16 Rpt. 31118.

FRI. FEB. 23. 1912

Lloyd's Register Foundation

W868-0068