

5b.

# REPORT ON BOILERS.

No. 9130

WED. 17. NOV. 1915

THU. JAN. 27. 1916

Received at London Office Nov. 16 1915 Port of Middlesbrough

No. in Survey held at Barlington Date, First Survey March 12<sup>th</sup> Last Survey Aug. 20<sup>th</sup> 1915.

on the Donkey Boiler No. 3278 S/S MADRYN (Number of Visits 14) Tons { Gross 2245 Net 1329

By whom built Osbourne, Graham & Co. When built 1916

By whom made Blake Boiler, Wagon & Eng. Co. Ltd. When made 1915

Port belonging to Newport

**VERTICAL DONKEY BOILER**— No. One Description Blake Patent Manufacturers of steel J. Spencer & Sons Ltd.  
 Made at Barlington By whom made Blake Boiler, W. & E. Co. Ltd. When made 1915 Where fixed Sketch Working pressure 90 lb.  
 Tested by hydraulic pressure to 180 Date of test 20.8.15 No. of Certificate 5348 Fire grate area 28 sq. ft. Description of safety valves direct spring  
 of safety valves two Area of each 5.94 sq. in. Pressure to which they are adjusted 92 If fitted with easing gear yes If steam from main boilers can  
 enter the donkey boiler no Dia. of donkey boiler 7'-6" Length 15'-0" Material of shell plates Steel Thickness 1/2" Range of tensile  
 strength 28-32 Descrip. of riveting long. seams D.R. Lap Dia. of rivet holes 15/16" Whether punched or drilled Drilled Pitch of rivets 3"  
 of plating 4 5/8" Percentage of strength of joint 78.2 Working pressure of shell by rules 93 lb. Thickness of shell crown plates 1/2"  
 Radius of do. 3'-9" No. of Stays to do. one Dia. of stays 1 1/2" Diameter of furnace Top 3'-9" Bottom 6'-3" Length of furnace 4'-6"  
 Thickness of furnace plates 2 1/2" Description of joint Welded Working pressure of furnace by rules 95 lb. Thickness of furnace crown  
 plates Top 1 1/2" Radius of do. 3'-9" Stayed by 1 plate stay Diameter of uptake tubes 2 1/2" Thickness of uptake plates front 2 1/2"  
Back 1 1/2" Thickness of water tubes 3 3/4" Ver. 14.5" diag. **SURVEY REQUEST** **FOR AND ON BEHALF OF** **THE BLAKE BOILER, WAGON & ENGINEERING CO. LIMITED** **Manufacturer.**  
No. 1132. ATTACHED.

Dates { During progress of work in shops - 1915 Mar 12-25-31 Apr 9-19-26 May 5-13-21 Jun 4-16-24 Aug 6-20.  
 Survey while building { During erection on board vessel - -  
 Total No. of visits 14.

Is the approved plan of boiler forwarded herewith Yes, please return for duplicate

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

This boiler has been constructed under Special Survey, is of good material and workmanship, and has been tested by hydraulic pressure with satisfactory results.

Sunderland 21-1-16 The boiler has been satisfactorily fixed in the vessel and its safety valves adjusted under steam, as above. Inth washers - 7/16"  
 Lead distance boiler to bunkers - 2'-6"

Survey Fee ... £ 2 : 2 : 2 When applied for Monthly &c.

Travelling Expenses (if any) £ : 10/10 When received, 19

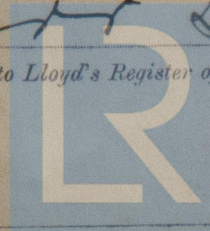
Robert Lewis Davis

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUE. FEB. 1 - 1916

Assigned



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Foundation

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