

# REPORT ON BOILERS.

Received at London Office WED. APR. 17. 1912

5b.

of writing Report 19 When handed in at Local Office 16.4 10<sup>th</sup> Port of MIDDLESBROUGH-ON-TEES  
 Date, First Survey 29<sup>th</sup> Decr. 1911 Last Survey 29<sup>th</sup> March 1912  
 Survey held at Barlinton By whom made J. Blumer & Coy  
 on the Donkey Boiler No. 3188 for Messrs J. Blumer & Coy (Number of Visits 14) Tons {Gross Net  
 Built at Sunderland By whom built J. Blumer & Coy When built 1912  
 Made at Barlinton By whom made Blake Boiler, Wagon & Eng. Co. Ld. When made 1912  
 Port belonging to \_\_\_\_\_

**VERTICAL DONKEY BOILER** No. One Description Blake Patent Manufacturers of steel J. Spencer & Sons Ld.  
 Made at Barlinton By whom made Blake Boiler, W. & E. Co. Ld. When made 1912 Where fixed Stokefield Working pressure 120 lbs  
 Tested by hydraulic pressure to 240 Date of test 29.3.12 No. of Certificate 4848 Fire grate area 32 sq Description of safety valves Two open loaded  
 of safety valves Two Area of each 5.9 sq Pressure to which they are adjusted 120 lbs If fitted with easing gear Yes If steam from main boilers can  
 be used for the donkey boiler No Dia. of donkey boiler 8'-0" Length 17'-3" Material of shell plates Steel Thickness 23/32" Range of tensile  
 strength 28-32 Descrip. of riveting long. seams J.R. Lap Dia. of rivet holes 15/16" Whether punched or drilled Drilled Pitch of rivets 3 3/4"  
 of plating 6 3/8" Per centage of strength of joint 75 Rivets 65.26 Working pressure of shell by rules 132 lbs Thickness of shell crown plates 3/32"  
 Radius of do. 3'-10 1/2" No. of Stays to do. 2 plate Dia. of stays 1 1/2" x 3/4" Diameter of furnace Top 4'-0" Bottom 6'-5" Length of furnace 4'-4"  
 Thickness of furnace plates 13/16" Description of joint Welded Working pressure of furnace by rules 124 lbs Thickness of furnace crown  
 plates Top 3/4" Radius of do. 4'-0" Stayed by 2 plate stays Diameter of uptake 2 3/4" Thickness of uptake plates Front 1/16"  
Back 1/32" Thickness of water tubes 4 1/8" Vert. 4-8" diag.  
 The foregoing is a correct description,  
 FOR & ON BEHALF OF  
 THE BLAKE BOILER, WAGON & ENGINEERING CO. Ld. Manufacturer.  
James Blake MANAGING DIRECTOR

During progress of work in shops -- 1911 Decr. 29, 1912 Jan. 1, 9, 19, 26, 29 Feb. 8, 19, 22, 28 Mar. 7, 11, 21, 29  
 During erection on board vessel --- Apr. 30, May 1, 2, 8  
 Total No. of visits 14 18  
 Is the approved plan of boiler forwarded herewith yes

**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. It has been recently fitted on board, mounted & its safety valves adjusted under steam.

SURVEY REQUEST NO. 492 ATTACHED.  
 Survey Fee ... £ 2 : 2 : } When applied for. MONTHLY A/c. 19  
 Travelling Expenses (if any) £ : 8/8 : } When received. 19  
 Shipping [Signature]  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

WED. MAY. 29. 1912  
 Committee's Minute  
 Assigned see Minute on Sld. Rpt  
 25282

