



**VERTICAL DONKEY BOILER—** Manufacturers of Steel

No. \_\_\_\_\_ Description \_\_\_\_\_

Made at \_\_\_\_\_ By whom made \_\_\_\_\_ When made \_\_\_\_\_ Where fixed \_\_\_\_\_

Working pressure tested by hydraulic pressure to \_\_\_\_\_ Date of test \_\_\_\_\_ No. of Certificate \_\_\_\_\_ Fire grate area \_\_\_\_\_ Description of Safety \_\_\_\_\_

Valves \_\_\_\_\_ No. of Safety Valves \_\_\_\_\_ Area of each \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_ Date of adjustment \_\_\_\_\_

If fitted with easing gear \_\_\_\_\_ If steam from main boilers can enter the donkey boiler \_\_\_\_\_ Dia. of donkey boiler \_\_\_\_\_ Length \_\_\_\_\_

Material of shell plates \_\_\_\_\_ Thickness \_\_\_\_\_ Range of tensile strength \_\_\_\_\_ Descrip. of riveting long. seams \_\_\_\_\_

Dia. of rivet holes \_\_\_\_\_ Whether punched or drilled \_\_\_\_\_ Pitch of rivets \_\_\_\_\_ Lap of plating \_\_\_\_\_ Per centage of strength of joint \_\_\_\_\_ Rivets \_\_\_\_\_ Plates \_\_\_\_\_

Working pressure of shell by rules \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ No. of stays to do. \_\_\_\_\_ Dia. of stays \_\_\_\_\_

Diameter of furnace Top \_\_\_\_\_ Bottom \_\_\_\_\_ Length of furnace \_\_\_\_\_ Thickness of furnace plates \_\_\_\_\_ Description of joint \_\_\_\_\_

Working pressure of furnace by rules \_\_\_\_\_ Thickness of furnace crown plates \_\_\_\_\_ Stayed by \_\_\_\_\_

Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_ Dates of survey \_\_\_\_\_

**SPARE GEAR.** State the articles supplied:— 1 set connecting rod bolts & nuts. 1 set of main bearing bolts & nuts. 1 set coupling bolts & nuts. 1 set bilge pump valves. 1 set valves for Wain's pumps. propeller shaft & propeller. nut bolts & assorted iron.

The foregoing is a correct description,  
**FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.**  
 Manufacturer.

Dates of Survey while building { During progress of work in shops - - - - - } *Chain* 1907 July 11, 19 Aug 16, 19, 21, 27, 29, Sep 2, Oct 9, 10, 20, 21, Nov 17, 18, 19, 22, 26, Dec 6, 10, 13, 16, 21.

{ During erection on board vessel - - - - - } \_\_\_\_\_

Total No. of visits 29 Is the approved plan of main boiler forwarded herewith ye

Dates of Examination of principal parts—Cylinders 19.7.07 Slides 19.7.07 Covers 19.7.07 Pistons 19.7.07 Rods 11/7/07 donkey " " " " " "

Connecting rods 11/7/07 Crank shaft 10/10/07 Thrust shaft 15/10/07 Tunnel shafts 10/10/07 Screw shaft 10/10/07 Propeller 10/10/07

Stern tube 10/10/07 Steam pipes tested 30<sup>th</sup> Oct 07 Engine and boiler seatings 26/10/11 Engines holding down bolts 18/11/07

Completion of pumping arrangements 22/11/07 Boilers fixed 18/11/07 Engines tried under steam 13/12/07

Main boiler safety valves adjusted 13/12/07 Thickness of adjusting washers PB 3/8 3/8 SB 3/16 3/16 FB 7/16 3/32

Material of Crank shaft S Identification Mark on Do. RJTF Material of Thrust shaft S Identification Mark on Do. RJTF

Material of Tunnel shafts S Identification Marks on Do. ✓ Material of Screw shafts B Identification Marks on Do. RJTF

Material of Steam Pipes W. I. Anlaf Copper Test pressure 540 lbs. 360 lbs.

**General Remarks** (State quality of workmanship, opinions as to class, &c. Machinery and boilers built under Special Survey. Materials & workmanship good. Engines and boilers examined under full steam & found satisfactory. In my opinion this vessel is now eligible for the record of L.M.C. 12/07.

It is submitted that this vessel is eligible for THE RECORD. **L.M.C. 12.07**  
**ELEC LIGHT**

*J.S.* 27.12.07  
 No 27-12-07

The amount of Entry Fee..	£ 3 : : :	When applied for,
Special .. .. .	£ 41 : 12 : :	<u>23 DEC 1907</u>
Donkey Boiler Fee .. .. .	£ : : :	When received, <u>24 DEC 1907</u>
Travelling Expenses (if any) £	: : :	

*J.S. Findlay*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute **FRI. 27 DEC 1907**  
 Assigned + L.M.C. 12.07  
Elec Light



Newcastle-on-Tyne

Certificate (if required) to be sent to the Surveyors (The Surveyors are requested not to write on or below the space for Committee's Minute.)

MACHINERY CERTIFICATE WRITTEN