

No. 24441

No. 6737

W.F.I.L. 11 MAY 1910  
I.U.S. 1 MAR 1910

## REPORT ON BOILERS.

Received at London Office

MIDDLEBROUGH OFFICE

pt. 5b.

Date of writing Report

19

When handed in at Local Office

20th Feb. 1910

Port of

7th Jan.

Last Survey

22 April 1910

20th Feb. 1910

(Number of Visits)

Gross

Net

Tons

When built

When made

1910

Port belonging to

Survey held at *Burlington*

Date, First Survey

No. in Reg. Book.

on the *Donkey Boiler No. 3141 for Messrs S. P. Austin & Sons SS No. 253*

Master

Boilers made at *Burlington*Built at *Sunderland*

By whom built

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

Owners

## VERTICAL DONKEY BOILER

No. *One*Description *Blake Patent Manufacturers of steel J. Spencer & Sons Ltd.*Made at *Burlington*By whom made *Blake B. W. & Eng. Co. Ltd.*When made *1910*Where fixed *Hotel*Working pressure *100 lbs*Tested by hydraulic pressure to *200*Date of test *25.2.10*No. of Certificate *4383*Fire grate area *25 sq ft*Description of safety valves *direct lifting*No. of safety valves *2*Area of each *4.91*Pressure to which they are adjusted *100 lbs*If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no*Dia. of donkey boiler *7' 0"*Length *15' 3"*Material of shell plates *Steel* Thickness *17/32"* Range of tensile strength *28-32*Descrip. of riveting long. seams *S.R. Lap*Dia. of rivet holes *15/16"*Whether punched or drilled *drilled* Pitch of rivets *3"*Lap of plating *4 5/8"* Per centage of strength of jointRivets *73.7*Plates *68.7*Working pressure of shell by rules *108 lbs* Thickness of shell crown plates *17/32"*Radius of do. *3' 6"* No. of Stays to do. *✓*Dia. of stays *✓*Diameter of furnace Top *3' 6"* Bottom *5' 7"*Length of furnace *4' 1"*Thickness of furnace plates *21/32"*Description of joint *Welded*Working pressure of furnace by rules *110 lbs*Thickness of furnace crown plates *17/32"*Radius of do. *3' 6"*Stayed by *✓*Diameter of uptake *2 1/2"*Thickness of uptake plates *13/16"*Thickness of water tubes *3 5/8" Vert.*Diameter of uptake *2 1/2"*Thickness of uptake plates *13/16"*

The foregoing is a correct description.

For BLAKE BOILER, WAGON &amp; ENGINEERING CO. LIMITED

Manufacturer.

MANAGING DIRECTOR

Dates of Survey

During progress of work in shops --

1910 Jan. 7. 14. 21. Feb. 1. 8. 19. 25.

while building

During erection on board vessel --

7

Total No. of visits

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

*Secured in place, mounted, & tested under steam.*

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

Survey Fee ... £ 2 : 2 : }

When received for *monthly a/c.* 19

Travelling Expenses (if any) £ : 6/6 : }

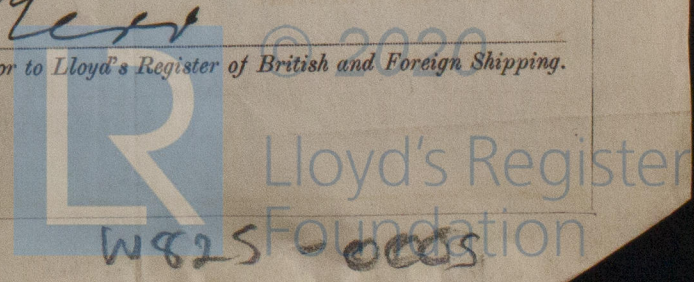
When received 19

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

Committee's Minute

FRI. 13 MAY 1910

Assigned



W825-0005