

513 Lady Helen
REPORT ON BOILERS

Std. No. 24263

No. 598

MIN. 11 OCT 1909

Received at London Office

5b.

of writing Report

7-10-1909 When handed in at Local Office

9-10-1909 Port of

MIDDLESBROUGH-ON-TEES

Say, in Book.

Survey held at *Barlington*

Date, First Survey *20th Aug 1909* Last Survey *29th Sept 1909*

(Number of Visits *5*)

Gross

Net

on the *Donkey Boiler No. 3133 for Messrs L. P. Austin & Sons SS. No. 251*

Built at

By whom built

When built

Key made at *Barlington*

By whom made *Blake Boiler, Wagon & Eng. Co. Ltd* When made *1909*

Port belonging to

VERTICAL DONKEY BOILER

No. *One* Description *Blake Patent* Manufacturers of steel *J. Spencer & Sons Ltd*

By whom made *Blake B. W. & Eng. Co. Ltd* When made *1909* Where fixed *Store hold* Working pressure *90 lbs*

ed by hydraulic pressure to *180* Date of test *29. 9. 09* No. of Certificate *4322* Fire grate area *14 sq ft* Description of safety valves *Spring*

of safety valves *1* Area of each *7.07* Pressure to which they are adjusted *90* If fitted with easing gear *Yes* If steam from main boilers can

the donkey boiler *No* Dia. of donkey boiler *5'-6"* Length *12'-6"* Material of shell plates *Steel* Thickness *13/32"* Range of tensile

length *28-32* Descrip. of riveting long. seams *LR Lap* Dia. of rivet holes *13/16"* Whether punched or drilled *Drilled* Pitch of rivets *2 5/8"*

of plating *4 1/4"* Per centage of strength of joint Rivets *82.8* Working pressure of shell by rules *96 lbs* Thickness of shell crown plates *13/32"*

Radius of do. *2'-9"* No. of Stays to do. *✓* Dia. of stays *✓* Diameter of furnace Top *2'-9"* Bottom *4'-6"* Length of furnace *3'-5"*

Thickness of furnace plates *15/32"* Description of joint *Welded* Working pressure of furnace by rules *92 lbs* Thickness of furnace crown

Top *5 1/8"* Radius of do. *2'-9"* Stayed by *✓* Diameter of tubes *2 1/2"* Thickness of tubes *19*

Back *32* Thickness of water tubes *diag. 4.5"* Thickness of uptake plates *Back 32*

The foregoing is a correct description.
FOR BLAKE BOILER, WAGON & ENGINEERING CO. LIMITED
James Blake Manufacturer.

MANAGING DIRECTOR.

During progress of work in shops - - *1909 Aug. 20. Sept. 2. 17. 21. 29. Oct. 20. 27. Nov. 1*
Survey while board vessel - - - *8*
Total No. of visits *8*
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.

Examined under Steam & found satisfactory
J. H. Hindley

Survey Fee ... £ 2 : 2 :
Travelling Expenses (if any) £ : 5/8 :

When applied for *Oct. 9th 09.*
When received, *13/10/09*

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

Committee's Minute

Assigned

FRI. 12 NOV 1909



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W830-0134
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