

## REPORT ON BOILERS.

Mdb No. 4304  
New No. 49926  
THUR 11 JAN 1906

Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

10

No. in  
Reg. Book.

Survey held at Middlesbrough

Date, first Survey

June 23

Last Survey

Jan 4 1906.

(Number of Visits)

on the Donkey Boiler No 1426) 1/3 "Dinsdale hall"

Gross 3898  
Tons Net 2534

Master

G. Edwards

Built at

Newcastle

By whom built

R. Stephenson &amp; Co. Ltd

When built

1906.

Engines made at

Wallsend

By whom made

No. Eastern Man. Eng Co

when made

1906

Boilers made at

Middlesbrough

By whom made

Richardson Westgarth &amp; Co. Ltd

when made

1906

Registered Horse Power

Owners

Guthrie Bros &amp; Co.

Port belonging to

W. Handpool

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record)	Total Heating Surface of Boilers	Is forced draft fitted	No. and Description of
Boilers	Working Pressure	Tested by hydraulic pressure to	Date of test
No. of Certificate	Can each boiler be worked separately	Area of fire grate in each boiler	No. and Description of
safety valves to each boiler	Area of each valve	Pressure to which they are adjusted	
Are they fitted with easing gear	In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler		
Smallest distance between boilers or uptakes and bunkers or woodwork	Mean dia. of boilers	Length	
Material of shell plates	Thickness	Range of tensile strength	Are the shell plates welded or flanged
Descrip. of riveting: cir. seams	long. seams	Diameter of rivet holes in long. seams	Pitch of rivets
Lap of plates or width of butt straps	Per centages of strength of longitudinal joint	Working pressure of shell by	
rules	Size of manhole in shell	Size of compensating ring	No. and Description of Furnaces in each
boiler	Material	Outside diameter	Length of plain part
Description of longitudinal joint	No. of strengthening rings	Working pressure of furnace by the rules	Combustion chamber
plates: Material	Thickness: Sides	Back	Top
Top	If stays are fitted with nuts or riveted heads	Working pressure by rules	Material of stays
smallest part	Area supported by each stay	Working pressure by rules	End plates in steam space: Material
Pitch of stays	How are stays secured	Working pressure by rules	Material of stays
Area supported by each stay	Working pressure by rules	Material of Front plates at bottom	Thickness
Lower back plate	Thickness	Greatest pitch of stays	Working pressure of plate by rules
Pitch of tubes	Material of tube plates	Thickness: Front	Back
water spaces	Working pressures by rules	Girders to Chamber tops: Material	Depth and thickness of
girder at centre	Length as per rule	Distance apart	Number and pitch of Stays in each
Working pressure by rules	Superheater or Steam chest: how connected to boiler	Can the superheater be shut off and the boiler worked	
separately	Diameter	Length	Thickness of shell plates
holes	Pitch of rivets	Working pressure of shell by rules	Diameter of flue
If stiffened with rings	Distance between rings	Working pressure by rules	End plates: Thickness
Working pressure of end plates	Area of safety valves to superheater	Are they fitted with easing gear	

## VERTICAL DONKEY BOILER—

No. One

Description

Blakes Improved Pat

Manufacturers of steel

Clyde Bridge Steel Co. Ltd

Made at

Middlesbrough

By whom made

Richardson Westgarth &amp; Co.

When made

16.10.05

Where fixed

Main dock

Working pressure

90

tested by hydraulic pressure to

180

No. of Certificate

3534

Fire grate area

324

Description of safety valves

Spring

No. of safety valves

2

Area of each

4'9"

Pressure to which they are adjusted

90

If fitted with easing gear

Yes

If steam from main boilers can

enter the donkey boiler

No.

Dia. of donkey boiler

8'-0"

Length

17'-3"

Material of shell plates

Steel

Thickness

7/16"

Range of tensile

strength

27/32

Descrip. of riveting long. seams

DR 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 joint

Rivets 69.7

Plates 68.75

Working pressure of shell by rules

96.5

Thickness of shell crown plates

7/16"

Radius of do.

4'-0"

No. of Stays to do.

✓

Thickness of furnace plates

7/16"

Description of joint

S R Lap

Working pressure of furnace by rules

91.09

Thickness of furnace crown

Comb. Chamb

plates

Top 1/16"

Stayed by

cylindrical

Diameter of uptake

2 3/4"

Thickness of uptake plates

3 1/32"

Pitch of water tubes

4'8"

The foregoing is a correct description,

Manufacturer.

J. McIntyre

Dates

During progress of work in shops - -

of Survey

During erection on board vessel - -

while building

Total No. of visits

1905 June 23. July 14-26. Aug 15-24. Sept. 14-22-24. Oct. 2-5-16

Is the approved plan of main boiler forwarded herewith

"

"

"

donkey

"

Lloyds Register

Foundation



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

*This boiler has been built under special survey  
The materials and workmanship are good and efficient  
After satisfactorily withstanding the hydraulic test it has  
been despatched for fitting on board.*

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

The amount of Entry Fee...	£	:	:	When applied for,
Special ... ..	£	:	:	19
Donkey Boiler Fee ...	£	2	2	When received,
Travelling Expenses (if any) £	:	:	:	8th Nov 1906

Committee's Minute

FRI. 12 JAN 1906

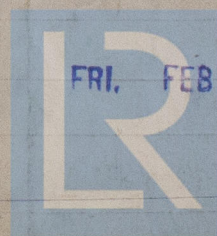
Assigned

*R D Shilston* *Sy Hindley*  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. DEC 21 1906

FRI. JAN 25 1907

FRI. FEB 22 1907



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Foundation