

# REPORT ON BOILERS.

Mar Rpt 1966

No. 63881

TUE. MAR. 18. 1913

MAR 17 1913

Received at London Office

NEWCASTLE-ON-TYNE

of writing Report

191

When handed in at Local Office

191

Port of

o. in Survey held at

Newcastle on Tyne

Date, First Survey

4<sup>th</sup> Oct. 1912

Last Survey

10<sup>th</sup> March 1913

Safe. Book.

55 on the

S.S. "Lasebo"

(Number of Visits)

Gross

Tons

Net

ster

Built at Middlesbrough

By whom built New Smith's Dock Co

When built 1913

ines made at

By whom made

When made

lers made at Newcastle

By whom made New Hawthorn, Leslie & Co L<sup>d</sup>

When made 1913

istered Horse Power

Owners Neale & West, L<sup>d</sup>

Port belonging to Cardiff

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

See attached letter 2.4.13

atter for record

S

Total Heating Surface of Boilers

1522 1483

Is forced draft fitted

No

No. and Description of

lers one S.E. Cyl<sup>r</sup> Inult<sup>r</sup>

Working Pressure 180 lbs

Tested by hydraulic pressure to 360 lbs

Date of test 10.3.13

of Certificate 8461

Can each boiler be worked separately

✓

Area of fire grate in each boiler 53.7

No. and Description of

ty valves to each boiler

Two direct spring

Area of each valve 4.9

Pressure to which they are adjusted 185 lbs

they fitted with easing gear

yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

✓

allest distance between boilers or uptakes and bunkers or woodwork

8 1/2

Inside

Mean dia. of boilers 13.6

Length 10.6

erial of shell plates steel

Thickness 1 1/8

Range of tensile strength 28/32

Are the shell plates welded or flanged

no

crip. of riveting: cir. seams

d & lap.

long. seams

L & d. & s.

Diameter of rivet holes in long. seams 1 1/16

Pitch of rivets 8

of plates or width of butt straps

18

Per centages of strength of longitudinal joint

rivets 90

Working pressure of shell by

184 lbs

Size of manhole in shell 16 x 12

Size of compensating ring

1 1/2 thick

No. and Description of Furnaces in each

ler 3-plain

Material steel

Outside diameter 42

Length of plain part

top 6.6

Thickness of plates

crown 25/32

cription of longitudinal joint

weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

186 lbs

tes: Material steel

Thickness: Sides

11/16

Back

11/16

Top

3/4

Bottom

15/16

Pitch of stays to ditto: Sides

8 1/2 x 10

Back 10 x 9

10 1/2 x 10 1/2

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules 180.5 lbs

Material of stays steel

Diameter at

allest part 2.03

Area supported by each stay 90

Working pressure by rules 204

End plates in steam space: Material steel

Thickness 12

ch of stays 20 x 19 1/2

How are stays secured

d & w.

Working pressure by rules 188

Material of stays steel

Diameter at smallest part 7.24

a supported by each stay 390

Working pressure by rules 122

Material of stays steel

Thickness 1

Material of

ver back plate steel

Thickness 15

Greatest pitch of stays 14 1/2 x 10

Working pressure of plate by rules 195.6

Diameter of tubes 3 1/2

ch of tubes 4 3/4 x 4 3/4

Material of tube plates steel

Thickness: Front

1

Back

25/32

Mean pitch of stays 9 1/2 x 11 1/2

Pitch across wide

er spaces 14 1/2

Working pressures by rules 183 lbs

Girders to Chamber tops: Material steel

Depth and thickness of

ler at centre 8 1/2 x 1 7/8

Length as per rule 33

Distance apart 10 1/8

Number and pitch of Stays in each 2 - 10 1/2

orking pressure by rules 193 lbs

Superheater or Steam chest: how connected to boiler

✓

Can the superheater be shut off and the boiler worked

✓

arately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

es

Pitch of rivets

Working pressure of shell by rules

✓

Diameter of flue

Material of flue plates

Thickness

stiffened with rings

Distance between rings

Working pressure by rules

✓

End plates: Thickness

How stayed

✓

orking pressure of end plates

Area of safety valves to superheater

✓

Are they fitted with easing gear

✓

## VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

ude at

By whom made

When made

Where fixed

Working pressure

ted by hydraulic pressure to

Date of test

No. of Certificate

Fire grate area

Description of safety valves

. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

er the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

ength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

p of plating

Per centage of strength of joint

Rivets

Working pressure of shell by rules

Thickness of shell crown plates

adius 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

Radius of do.

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

FOR R. & W. HAWTHORN, LESLIE & CO. LD

Manufacturer.

Dates of Survey while building

During progress of work in shops -

1912 Oct. 4. 14. 28. 31. Nov. 8. 13. 18. 22. 26 Dec. 9. 13. 17. 20. 23. 1913 Jan. 9. 14. 20. 23. 27. 29. 31. Feb. 5. 12. 13. 18. 25. Mar. 5. 10.

During erection on board vessel -

Total No. of visits

28 +

Is the approved plan of main boiler forwarded herewith

With report 63880

" " " donkey " " "

Lloyd's Register



**GENERAL REMARKS**

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

*This Main Boiler has been constructed under special survey, the workmanship and materials used are both of good quality, it has been tested by water pressure and proved satisfactory under test*

*The Boiler will be sent to Piddlesbro' for fitting on board the vessel*

*Boiler satisfactorily fitted & secured on board & safety valves adjusted under steam*

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	.. .. £	4 19 0	MAR 17 1913
Donkey Boiler Fee	.. .. £	:	When received,
Travelling Expenses (if any)	£	:	at 1/6
			29th Dec 1912

Committee's Minute

TUE. JUN. 17. 1913

Assigned

*R. V. Cromber & J. Kerr*  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Foundation