

REPORT ON BOILERS.

No. 50553

11 JUN 1930

Received at London Office

of writing Report

192

When handed in at Local Office

9. 6. 1930

Port of

Glasgow

o. in Survey held at

Glasgow

Date First Survey

29. 1. 30

Last Survey

7. 6. 1930

1930

on the

new steel 95" ANGLESEA ROSE

(Number of Visits

35)

Gross

Tons

Net

ster

Built at

Glasgow

By whom built

D & W. Henderson & Co. Ltd.

Yard No. 901

When built

1930

ines made at

Glasgow

By whom made

D & W. Henderson & Co. Ltd.

Engine No. 901

When made

1930

ers made at

Glasgow

By whom made

D & W. Henderson & Co. Ltd.

Boiler No. 901

When made

1930

inal Horse Power

173

Owners

Hughes

Port belonging to

Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

D. A. B. Shille & Sons Ltd. & The Appleby Iron Co. Ltd.

(Letter for Record (S))

l Heating Surface of Boilers

3304 sq. ft.

Is forced draught fitted

no

Coal or Oil fired

coal

and Description of Boilers

Two single ended

Working Pressure

180

ed by hydraulic pressure to

320

Date of test

8-5-30

No. of Certificate

18721

Can each boiler be worked separately

yes

a of Firegrate in each Boiler

47 sq. ft.

No. and Description of safety valves to each boiler

Two, Improved high lift

of each set of valves per boiler

per Rule

5.38"

as fitted

6.28"

Pressure to which they are adjusted

185

Are they fitted with easing gear

yes

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

llest distance between boilers or uptakes and bunkers or woodwork

3'-2"

Is oil fuel carried in the double bottom under boilers

no

llest distance between shell of boiler and tank top plating

Open flange

Is the bottom of the boiler insulated

no

est internal dia. of boilers

13'-6"

Length

10'-9"

Shell plates: Material

steel

Tensile strength

28-32 tons

ickness

1 1/8"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end

inter.

WR

seams

WBS, TR

Diameter of rivet holes in

circ. seams

1 3/16"

Pitch of rivets

3'-6"

8 3/8"

centage of strength of circ. end seams

plate

68

Percentage of strength of circ. intermediate seam

plate

85.8

centage of strength of longitudinal joint

plate

85.8

Working pressure of shell by Rules

90

combined

89.7

Working pressure of shell by Rules

183

ickness of butt straps

outer

7/8"

inner

1"

No. and Description of Furnaces in each Boiler

Two Weighon

erial

steel

Tensile strength

26-30 tons

Smallest outside diameter

48.109"

th of plain part

top

bottom

Thickness of plates

crown

3/16"

bottom

Description of longitudinal joint

welded

ensions of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

184

plates in steam space: Material

steel

Tensile strength

26-30 tons

Thickness

1 1/8"

Pitch of stays

18" x 18"

are stays secured

WN

Working pressure by Rules

181

plates: Material

front

steel

back

"

Tensile strength

26-30 tons

Thickness

1 1/6"

79" (see plan)

pitch of stay tubes in nests

9"

Pitch across wide water spaces

14 1/4"

Working pressure

front

183"

back

182"

ers to combustion chamber tops: Material

steel

Tensile strength

28-32 tons

Depth and thickness of girder

entre

2 @ 8 3/4" x 1 1/6"

Length as per Rule

31.625

Distance apart

9"

No. and pitch of stays

ach

3 @ 8 1/4"

Working pressure by Rules

187

Combustion chamber plates: Material

steel

ile strength

26-30 tons

Thickness: Sides

5/8"

Back

1 1/2"

Top

5/8"

Bottom

1 1/6"

h of stays to ditto: Sides

9" x 8 1/4"

Back

9" x 8 1/4"

Top

9" x 8 1/4"

Are stays fitted with nuts or riveted over

nuts

king pressure by Rules

181

Front plate at bottom: Material

steel

Tensile strength

26-30 tons

ickness

1 1/4"

Lower back plate: Material

steel

Tensile strength

26-30 tons

Thickness

2 5/8"

of stays at wide water space

14" x 8 1/4"

Are stays fitted with nuts or riveted over

nuts

ing Pressure

187

Main stays: Material

steel

Tensile strength

28-32 tons

eter

At body of stay,

or

Over threads

2 9/8"

No. of threads per inch

6

Area supported by each stay

2880"

ing pressure by Rules

194

Screw stays: Material

steel

Tensile strength

26-30 tons

eter

At turned off part,

or

Over threads

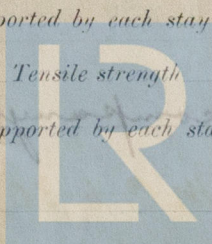
1 1/2" & 1 7/8"

No. of threads per inch

9

Area supported by each stay

678 740"



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WS-0086

REPORT ON BOILERS
Working pressure by Rules 187 & 206 Are the stays drilled at the outer ends ☒ Margin stays: Diameter { At turned off part, or Over threads 1 3/4"
No. of threads per inch 9 Area supported by each stay 91 Working pressure by Rules 199
Tubes: Material Iron steel External diameter { Plain 3 1/4" Thickness 8 L.S.G. No. of threads per inch 9
Pitch of tubes 4 1/2" x 4 1/2" Working pressure by Rules 230 / Manhole compensation: Size of opening in shell plate 16 1/2" x 20 1/2" Section of compensating ring 8" x 1 3/16" No. of rivets and diameter of rivet holes 44 @ 1 1/8"
Outer row rivet pitch at ends 8 3/8" Depth of flange if manhole flanged 3 1/2" Steam Dome: Material none
Tensile strength 10p Thickness of shell 1/2" Description of longitudinal joint
Diameter of rivet holes 10p Pitch of rivets Percentage of strength of joint { Plate Rivets
Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays
How connected to shell Inner radius of crown Working pressure by Rules
Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of Tubes Steel castings
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately
Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules
Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description,
FOR DAVID & W. HENDERSON & CO., LTD.

Manufacturer,
DIRECTOR.

Dates of Survey { During progress of work in shops - - See accompanying
while building { During erection on board vessel - - machy report
Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
Total No. of visits 35

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

The materials and workmanship are good.
The boilers have been constructed under special survey in accordance with the Rules satisfactorily fitted in the vessel and their safety valves adjusted under steam.

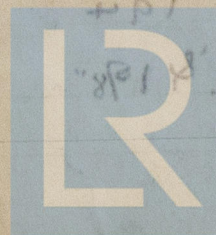
Survey Fee ... £ : : When applied for, 192
Travelling Expenses (if any) £ : : When received, 192

L. J. Davis.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 10 JUN 1930

Assigned See accompanying machy report



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