

## REPORT ON BOILERS.

No. 19119.

Received at London Office

13 NOV 1929

Date of writing Report

11.7.29

When handed in at Local Office

4th November 1929

Port of

Greenock

No. in  
Reg. Book

Survey held at

Greenock

Date, First Survey

9th January 1929

Last Survey

6th November 1929

1929

on the

S/S "Summington Court"

(Number of Visits)

✓

Tons

Gross 4909.01.

Net 3011.66.

Master

Built at

P. Glasgow

By whom built

R. Duncan &amp; Co.

Yard No.

392.

When built

1929

Engines made at

Greenock

By whom made

John &amp; Thos. &amp; Co. Ltd.

Engine No.

1744

When made

1929

Boilers made at

ditto

By whom made

ditto

Boiler No.

1744

When made

1929

Nominal Horse Power

490

Owners

Greenock Ship Co. Ltd.

Port belonging to

London.

MULTITUBULAR BOILERS ~~MAIN~~ AUXILIARY, ~~STEAM~~.

Manufacturers of Steel

James Dunlop, Scottish S.S. Co. Ltd.

(Letter for Record)

S

Total Heating Surface of Boilers

1614

Is forced draught fitted

yes

Coal or Oil fired

oil

No. and Description of Boilers

2 Single Ended

Working Pressure

150

Tested by hydraulic pressure to

245

Date of test

28/6/29

No. of Certificate

1876

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

12.5

No. and Description of safety valves to each boiler

Double Spring

Area of each set of valves per boiler

per Rule

8.48

as fitted

7.96

Pressure to which they are adjusted

150

Are they fitted with easing gear

yes

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

8"

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

Boilers in Tween Decks

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

9' 11 3/4"

Length

9' 0"

Shell plates: Material

S

Tensile strength

29.33

Thickness

23/32"

Are the shell plates welded or flanged

✓

Description of riveting: circ. seams

end

DR

long. seams

DR + DBS

Diameter of rivet holes in

circ. seams

29/32"

long. seams

29/32"

Pitch of rivets

3 1/4"

4 3/4"

Percentage of strength of circ. end seams

plate

44.5

Percentage of strength of circ. intermediate seam

plate

✓

Percentage of strength of longitudinal joint

plate

80.92

Working pressure of shell by Rules

151

Thickness of butt straps

outer

6/8"

inner

3/4"

No. and Description of Furnaces in each Boiler

2 Single Ended

Material

S

Tensile strength

26.30

Smallest outside diameter

2.9 3/4"

Length of plain part

top

✓

Thickness of plates

crown

3/8"

bottom

Description of longitudinal joint

weld

Dimensions of stiffening rings on furnace or e.c. bottom

✓

Working pressure of furnace by Rules

156

End plates in steam space: Material

S

Tensile strength

26.30

Thickness

7/8"

Pitch of stays

14" x 16 1/2"

How are stays secured

D.N. washers

Working pressure by Rules

161

Tube plates: Material

front

S

back

S

Tensile strength

26.30

Thickness

7/8"

21/32"

Mean pitch of stay tubes in nests

10 5/8"

Pitch across wide water spaces

14"

Working pressure

front

195

Girders to combustion chamber tops: Material

S

Tensile strength

29.33

Depth and thickness of girder

at centre

63/4 x 5/8 (2)

Length as per Rule

2.2 1/32"

Distance apart

8 1/2"

No. and pitch of stays

in each

2 at 8 1/4"

Working pressure by Rules

168

Combustion chamber plates: Material

S

Tensile strength

26.30

Thickness: Sides

5/8"

Back

5/8"

Top

5/8"

Bottom

5/8"

Pitch of stays to ditto: Sides

8 1/4 x 10"

Back

8 3/4 x 9 1/2"

Top

8 1/4 x 8 1/2"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

162

Front plate at bottom: Material

S

Tensile strength

26.30

Thickness

7/8"

Lower back plate: Material

S

Tensile strength

26.30

Thickness

7/8"

Pitch of stays at wide water space

13 3/4"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

236

Main stays: Material

S

Tensile strength

28.32

Diameter

At body of stay,

or

23/8"

No. of threads per inch

6

Area supported by each stay

237.5

Working pressure by Rules

165

Screw stays: Material

S

Tensile strength

26.30

Diameter

At turned off part,

or

1 1/2 x 1 3/4"

No. of threads per inch

9

Area supported by each stay

83 1/4

Nos.

If not, state whether, and when, one will be sent?

9-12

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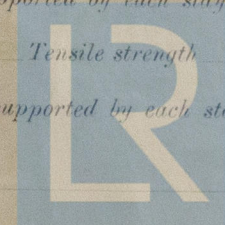
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Working pressure by Rules 151 Are the stays drilled at the outer ends 910 Margin stays: Diameter (At turned off part, 15/8" or Over threads) 152

No. of threads per inch 9 Area supported by each stay 90.65 Working pressure by Rules 152

Tubes: Material Iron External diameter Plain 3" Stay 3" Thickness 1/4" 15/16" No. of threads per inch 9

Pitch of tubes 4 1/4" 4 1/4" Working pressure by Rules 170 Manhole compensation: Size of opening in shell plate 16" 20" Section of compensating ring 2 7/8" 2 3/4" 2 3/8" No. of rivets and diameter of rivet holes 26 - 1 1/2"

Outer row rivet pitch at ends 5 3/8" Depth of flange if manhole flanged 2 1/4" Steam Dome: Material

Tensile strength Thickness of shell Description of longitudinal joint

Diameter of rivet holes Pitch of rivets Percentage of strength of joint (Plate Rivets)

Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays

Inner radius of crown Working pressure by Rules

How connected to shell 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

Number of elements Material of tubes Manufacturers of Tubes Steel castings 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 JOHN G. KINGALD & CO. LIMITED.  
Director. Manufacturer.

Dates of Survey (During progress of work in shops - -) while building (During erection on board vessel - -)

SEE MACHINERY REPORT.

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

Total No. of visits

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

These Boilers have been built under special Survey in accordance with the approved plans & the workmanship & material are of good quality. They are now securely fitted on board.

This Report accompanies trial of the Machinery

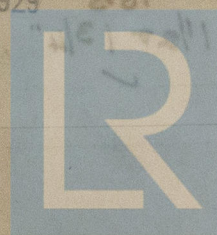
Survey Fee Charged on 192 Travelling Expenses (if any) 192

Wm. Gordon-Douglas  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 12 NOV 1929

TUE. 19 NOV 1929

Assigned See accompanying report



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