

Rpt. 5a.

## REPORT ON BOILERS.

No. 18964  
13 NOV 1928

-3 OCT 192.

Received at London Office

Date of writing Report

19. 9. 28

When handed in at Local Office

28<sup>th</sup> Sept 1928

Port of

Greenock

No. in Reg. Book.

Greenock

Date, First Survey

12<sup>th</sup> March 1928

Last Survey

24<sup>th</sup> September 1928

on the

S/S "Tibington Court"

(Number of Visits)

Gross 6910

Net 4335

Master

Built at

Greenock

By whom built

Arunston &amp; Co. Ltd.

Yard No.

1040

When built

1928

Engines made at

Greenock

By whom made

John &amp; Nicolson &amp; Co. Ltd.

Engine No.

652

When made

1928

Boilers made at

ditto

By whom made

ditto

Boiler No.

652

When made

1928

Nominal Horse Power

544

Owners

Port belonging to

## MULTITUBULAR BOILERS - MAIN,

Manufacturers of Steel

Calville, Scottish &amp; Co. Ltd.

(Letter for Record R)

Total Heating Surface of Boilers

8601.

Is forced draught fitted

yes

Coal - Oil fired

Coal

No. and Description of Boilers

3 Single ended

358

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

13. 9. 28

No. of Certificate

1845

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

6325

No. and Description of safety valves to each boiler

Double spring

Area of each set of valves per boiler

per Rule

7.4

Pressure to which they are adjusted

180

Are they fitted with easing gear

yes

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

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

3 feet

Is oil fuel carried in the double bottom under boilers

yes

Smallest distance between shell of boiler and tank top plating

3 feet

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

15. 7. 78

Length

12. 0"

Shell plates: Material

S

Tensile strength

28. 32

Thickness

1 9/32"

Are the shell plates welded or flanged

yes

Description of riveting: circ. seams

end 2R

long. seams

TR &amp; DBS

Diameter of rivet holes in

circ. seams

13/8"

long. seams

1 7/16"

Pitch of rivets

4. 039

Percentage of strength of circ. end seams

plate

65. 45

rivets

44

Percentage of strength of circ. intermediate seam

plate

86. 8

rivets

88

Percentage of strength of longitudinal joint

plate

86. 8

rivets

88

Working pressure of shell by Rules

181

Thickness of butt straps

outer

1 1/8"

No. and Description of Furnaces in each Boiler

3 Slightons 3cf.

Material

S

Tensile strength

26. 30

Smallest outside diameter

3'- 11 3/16"

Length of plain part

top

19 1/32"

Thickness of plates

crown

19 1/32"

bottom

Description of longitudinal joint

weld

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

yes

Working pressure of furnace by Rules

183

End plates in steam space: Material

S

Tensile strength

26. 30

Thickness

1 1/4"

Pitch of stays

2 1/2" x 19 1/2"

How are stays secured

D.N. &amp; W.

Working pressure by Rules

186

Tube plates: Material

front

S

back

S

Tensile strength

26. 30

Thickness

15/16"

3/4"

Mean pitch of stay tubes in nests

9. 375

Pitch across wide water spaces

13 1/2"

Working pressure

front 183

back 192

Girders to combustion chamber tops: Material

S

Tensile strength

26. 32

Depth and thickness of girder

at centre

10 x 3/4 (2)

Length as per Rule

3'- 1. 56

Distance apart

9 1/8"

No. and pitch of stays

in each

3 at 9"

Working pressure by Rules

182

Combustion chamber plates: Material

S

Tensile strength

26. 30

Thickness: Sides

2 1/32"

Back

2 1/32"

Top

2 1/32"

Bottom

2 5/32"

Pitch of stays to ditto: Sides

9" x 9"

Back

9" x 9"

Top

9" x 9 1/8"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

185

Front plate at bottom: Material

S

Tensile strength

26. 30

Thickness

15/16"

Lower back plate: Material

S

Tensile strength

26. 30

Thickness

2 5/32"

Pitch of stays at wide water space

13 3/4"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

183

Main stays: Material

S

Tensile strength

28. 32

Diameter

At body of stay, or over threads

3 1/4" x 3 1/2"

No. of threads per inch

6

Area supported by each stay

419. 25

Working pressure by Rules

189

Screw stays: Material

steel

Tensile strength

21 1/2" 2020

Diameter

At turned off part, or over threads

1 5/8"

No. of threads per inch

9

Area supported by each stay

81"



Working pressure by Rules 184 Are the stays drilled at the outer ends ☒ Margin stays: Diameter { At turned off part, 1 3/4" or Over threads }  
 No. of threads per inch 9 Area supported by each stay 90.125 Working pressure by Rules 181  
 Tubes: Material Iron External diameter { Plain } 2 1/2" Thickness { 9 WG } 3/8 + 5/16 No. of threads per inch 9  
 Pitch of tubes 33 1/4 + 33 1/4 Working pressure by Rules 184 Manhole compensation: Size of opening in shell plate 16 1/2 + 20 1/2 Section of compensating ring 3' 0 1/4 + 2' 4 1/4 + 1' 9 3/4 No. of rivets and diameter of rivet holes 28 at 1 5/16  
 Outer row rivet pitch at ends 9 1/4" Depth of flange if manhole flanged 3" 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 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 23 inclusive for boilers been complied with ☒

FOR JOHN G. KINCAID & COY. LIMITED  
 The foregoing is a correct description,  
 J. G. Kincaid 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 1

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 is of good quality, they have now been shipped to Newcastle, at which port they will be fitted on board. This Report accompanies that of the Machinery

Survey Fee Charged on Machinery Report  
 Drawing Expenses (if any)

When applied for, 192  
 When received, 192

W. J. Gordon - Maclean

Engineer Surveyor to Lloyd's Register of Shipping.

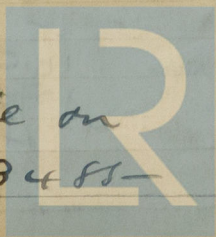
Committee's Minute GLASGOW 2 OCT 1928

FRI. 16 NOV 1928

Assigned

Deferred

See minute on  
 Inve Rpt. 83485



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Lloyd's Register Foundation

Rpt. 13.

REI

Date of writing

No. in Sur Reg. Book. 92278. on

Built at

Owners

Electric Light

System of D

Pressure of su

Direct or Alt

If alternating

Has the Autom

Generators, a

are they over co

Where more tha

series with each

Are all terminal

short circuited,

Position of G

is the ventilatio

if situated ne

are their axes

Earthing, are

their respective

Main Switch

a fuse on each

Switchboard

are they protect

woodwork or o

are they constr

permanently hi

with mica or m

and is the fran

Yes

bars

Main Switch

fuses

each

Instruments

Earth Testin

Couple

Switches, Ch

Joint Boxes