

REPORT ON BOILERS.

No. 18966.

Received at London Office

10 OCT 1928

Date of writing Report

5/9/28

1928

When handed in at Local Office

6th October 1928

Port of

Greenwich

No. in Survey held at

Greenwich

Date, First Survey

12th March 1928

Last Survey

5th October

1928

on the

S/S "Rossington Court"

(Number of Visits)

Gross

Tons

Net

Master

Built at

Glasgow

By whom built

Fairfield & Co. Ltd.

Card No.

631

When built

1928

Engines made at

Greenwich

By whom made

John & Nubud Ltd.

Engine No.

653

When made

1928

Boilers made at

ditto

By whom made

ditto

Boiler No.

651

When made

1928

Nominal Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN,

Manufacturers of Steel

Bolville, Scotland & Co. Ltd.

(Letter for Record R)

Total Heating Surface of Boilers

8601

Is forced draught fitted

yes

Oil fired

Coal

No. and Description of Boilers

3 Single ended 303

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

13.8.28

No. of Certificate

1841 (Cul. & Stax)

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

63.25

No. and Description of safety valves to each boiler

Double spring

Area of each set of valves per boiler

per Rule 18.4

as fitted 19.24

Pressure to which they are adjusted

185

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

6.0"

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

2.0"

Is the bottom of the boiler insulated

No.

Largest internal dia. of boilers

15.478

Length

12.0"

Shell plates: Material

S

Tensile strength

28-32

Thickness

19/32

Are the shell plates welded or flanged

yes

Description of riveting: circ. seams

end DR

Long. seams

T.R.D.B.S.

Diameter of rivet holes in

circ. seams 1.3/8"

long. seams 1.5/16"

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 85.8

rivets 88

Percentage of strength of longitudinal joint

plate 88

rivets 89.2

Working pressure of shell by Rules

181

Thickness of butt straps

outer 1"

inner 1/8"

No. and Description of Furnaces in each Boiler

3 Neighbour 304

Material

S

Tensile strength

26-30

Smallest outside diameter

3-11 3/16"

Length of plain part

top 19/32

bottom 19/32

Thickness of plates

crown 19/32

bottom 19/32

Description of longitudinal joint

weld

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

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

21 1/2" x 19 1/2"

How are stays secured

D.N.W.

Working pressure by Rules

186

Tube plates: Material

front S

back S

Tensile strength

26-30

Thickness

15/16"

Mean pitch of stay tubes in nests

9.345

Pitch across wide water spaces

13 1/2"

Working pressure

front 183

back 192

Girders to combustion chamber tops: Material

S

Tensile strength

28-32

Depth and thickness of girder

at centre

10" x 3 1/4" (2)

Length as per Rule

3-1 1/2"

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

21 1/32"

Back

21 1/32"

Top

21 1/32"

Bottom

25 1/32"

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

25 1/32"

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, 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

9/16"

Tensile strength

21 1/2" min

Diameter

At turned off part, 1 5/8"

No. of threads per inch

9

Area supported by each stay

81.5"

W450-0198

Working pressure by Rules 189 Are the stays drilled at the outer ends 910 Margin stays: Diameter { At turned off part, 13 1/4" or Over threads }
 No. of threads per inch 9 Area supported by each stay 90.125 Working pressure by Rules 181
 Tubes: Material 91011 External diameter { Plain } 2 1/2" Thickness { 9 WG 3/8 x 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" x 20 1/2" Section of compensating ring 3' 0 1/4" x 2' 4 1/4" x 1' 9 3/4" No. of rivets and diameter of rivet holes 38 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,

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 plan & the workmanship and material are of good quality. They are now securely fitted on board. This Report accompanies that of the Machinery.

Survey Fee £
 Charged on Machinery Report

When applied for, 192

When received, 192

W. Gordon-Mitchell
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 9 OCT 1928

TUE. 6 NOV 1928

TUE. 12 MAR 1929

Assigned

See accompanying mach. report



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