

REPORT ON BOILERS.

No. 29410

Date of writing Report

192

When handed in at Local Office

5 APR 1927

Received at London Office

6 APR 1927

Port of

Sunderland.

No. in
Reg. Book.

Survey held at

Sunderland

Date, First Survey

Last Survey

1st Apr

1927

On the

S. S. CORCHESTER

(Number of Visits

Gross

2374

Tons

Net 1335

Master

Built at

Sunderland

By whom built

S. P. Austin & Sons

Yard No.

308

When built

1927

Engines made at

Sunderland

By whom made

G. Clark & Co

Engine No.

1131

When made

1927

Boilers made at

Sunderland

By whom made

G. Clark & Co

Boiler No.

1131

When made

1927

Nominal Horse Power

243.

Owners

Gony Colliers. Ltd

Port belonging to

London

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY, OR DONKEY.~~

Manufacturers of Steel

John Spencer & Sons

(Letter for Record

S

Total Heating Surface of Boilers

4060 sq

Is forced draught fitted

No

Coal or Oil fired

Coal

No. and Description of Boilers

Two single ended

Working Pressure

180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test

12.9.24

No. of Certificate

3902

Can each boiler be worked separately

YES

Area of Firegrate in each Boiler

61 sq

No. and Description of safety valves to each boiler

2 Spring valves

Area of each set of valves per boiler

per Rule

as fitted

6.15 sq

Pressure to which they are adjusted

185 lbs

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'-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

14-9 7/8

Length

10-9

Shell plates: Material

S

Tensile strength

28-32

Thickness

1 1/2

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

16 lbs

long. seams

d. 1/2 in riv.

Diameter of rivet holes in

circ. seams

1 1/2

Description of riveting: long. seams

Pitch of rivets

3 1/2

3 1/2

8 5/8

Percentage of strength of circ. end seams

plate

65.5

rivets

43.6

Percentage of strength of circ. intermediate seam

plate

85.5

rivets

Percentage of strength of longitudinal joint

plate

90

rivets

89.2

Working pressure of shell by Rules

181

Thickness of butt straps

outer

15/16

inner

1 1/4

No. and Description of Furnaces in each Boiler

3 Dighton

Material

S

Tensile strength

26-30

Smallest outside diameter

3-8 3/8

Length of plain part

top

bottom

Thickness of plates

crown

3 9/16

bottom

Description of longitudinal joint

welded

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

Working pressure of furnace by Rules

184

End plates in steam space: Material

S

Tensile strength

26-30

Thickness

1 5/16

Pitch of stays

22 3/4 x 20

How are stays secured

d. u. & w.

Working pressure by Rules

180

Tube plates: Material

front

S

back

S

Tensile strength

26-30

Thickness

3/4

Mean pitch of stay tubes in nests

10 1/4

Pitch across wide water spaces

14 1/4

Working pressure

front

185

back

192

Girders to combustion chamber tops: Material

S

Tensile strength

28-32

Depth and thickness of girder

at centre

7 3/4 x 1 3/4

Length as per Rule

32"

Distance apart

9 1/2

No. and pitch of stays

in each

2 @ 10"

Working pressure by Rules

186

Combustion chamber plates: Material

S

Tensile strength

26-30

Thickness: Sides

23/32

Back

11/16

Top

23/32

Bottom

23/32

Pitch of stays to ditto: Sides

10 x 10

Back

10 x 9

Top

10 x 9 1/2

Are stays fitted with nuts or riveted over

nuts inside

Working pressure by Rules

181

Front plate at bottom: Material

S

Tensile strength

26-30

Thickness

1 3/16

Lower back plate: Material

S

Tensile strength

26-30

Thickness

1 5/16

Pitch of stays at wide water space

15 x 9 3/4

Are stays fitted with nuts or riveted over

nuts on margins

Working Pressure

226

Main stays: Material

S

Tensile strength

28-32

Diameter

At body of stay,

or

Over threads

3 3/4 x 2 3/4

No. of threads per inch

6

Area supported by each stay

4 1/2 sq

x 3 1/2 sq

Working pressure by Rules

180

Screw stays: Material

S

Tensile strength

26-30

Diameter

At turned off part,

or

Over threads

1 3/4

No. of threads per inch

9

Area supported by each stay

100 sq

in

Lloyd's Register

Foundation

002038-002050-0075

Working pressure by Rules 181 Are the stays drilled at the outer ends No ✓ Margin stays: Diameter { At turned off part, 1 7/8 + 2" or Over threads 1 5/8 ✓
 No. of threads per inch 9 ✓ Area supported by each stay 117" Working pressure by Rules 183
 Tubes: Material Iron ✓ External diameter { Plain 3 1/4 ✓ Thickness 8 W G ✓ No. of threads per inch 9 ✓
 Stay 3 1/4 ✓ Pitch of tubes 4 1/2 + 4 3/8 ✓ Working pressure by Rules 244 Manhole compensation: Size of opening in shell plate 16 x 12 ✓ Section of compensating ring Flanged ✓ No. of rivets and diameter of rivet holes ✓
 Outer row rivet pitch at ends ✓ Depth of flange if manhole flanged 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 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 GEORGE CLARK LIMITED.

The foregoing is a correct description,

W. S. G. M. M.

Manufacturer.

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

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

These boilers have been built under Special Survey & the workmanship & materials are good. On completion they were satisfactorily fitted in the vessel & the safety valves adjusted under steam. For notation see machinery report.

Survey Fee Charged on Machinery Report. When applied for, 192
 Travelling Expenses (if any) £ When received, 192

G. H. M. J. Charlotte.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 8 APR 1927.

Assigned see minute on Sld. Rpt 29 4 10 attached



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