

REPORT ON BOILERS.

No. 427

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

Sheffield

No. in Reg. Book

Survey held at

Sheffield

Date, First Survey

14/10/30

Last Survey

November 14th 1930

(Number of Visits 4)

Gross

Tons

Net

built at

By whom built

Original kept attached to 7 Rept on
by Messrs. J. J. Cantu

When built

Engines made at

By whom made

Engine No.

When made

Boilers made at

Sheffield

By whom made

Messrs. Davy Bros. Ltd

Boiler No.

3541 + 3542

When made 1930

Messrs. Clarkson Thimble Tube Boiler Co. Ltd. Cont. Nos. 4167417

Port belonging to

Messrs. Watson & Co. Ltd. Jama. Ship No. 1847185

VERTICAL DONKEY BOILER.

Made at Sheffield By whom made Davy Bros. Ltd

Boiler No. 3541 + 3542

When made 1930

Where fixed ✓

Manufacturers of Steel

The Parkgate Iron & Steel Co. Ltd.

Total Heating Surface of Boiler

250 sq

Is forced draught fitted ✓

Coal or Oil fired

oil

No. and Description of Boilers

2 Clarkson Thimble Tube (1 for Santo Marra 1 for Sander Marra)

Working pressure

100 lb

Tested by hydraulic pressure to

200 lb.

Date of test

14/11/30

No. of Certificate

530 - 531

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

1 3/4" Double Spring

Area of each set of valves per boiler

per rule 3.25

Pressure to which they are adjusted

Are they fitted with easing gear

State whether steam from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

or woodwork

Is oil fuel carried in the double bottom under boiler

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

Largest internal dia. of boiler

4' 0"

Height

8' 3 3/8"

Shell plates: Material

steel

Tensile strength

28/32

Thickness

7/16"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end S. R. Lap

long. seams

S. R. Butt

Dia. of rivet holes in

circ. seams 13/16" long. seams 13/16"

Pitch of rivets

2 1/8" 3.06

Percentage of strength of circ. seams

plate 61% rivets 46%

of Longitudinal joint

plate 73% rivets 120% combined 107%

Working pressure of shell by rules

185 lb

Thickness of butt straps

outer 13/32" inner 13/32"

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat

Flat

Material

steel

Tensile strength

26/30

Thickness

9/16"

Radius

✓

Working pressure by rules

285 lb

Description of Furnace: Plain, spherical, or dished crown

Dished

Material

steel

Tensile strength

26/30

Thickness

3/4"

External diameter

top 3' 1 7/8" bottom 3' 1 7/8"

Length as per rule

5' 0"

Working pressure by rules

129 lbs

Pitch of support stays circumferentially

none

and vertically

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Radius of spherical or dished furnace crown

3' 0"

Working pressure by rule

144 lb

Thickness of Ogee Ring

none

Diameter as per rule

D

Working pressure by rule

Combustion Chamber: Material

Tensile strength

Thickness of top plate

Radius if dished

Working pressure by rule

Thickness of back plate

Diameter if circular

Length as per rule

Pitch of stays

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Working pressure of back plate by rules

Tube Plates: Material

front Circular Steel back

Tensile strength

26/30

Thickness

3/4"

Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule

front back

Pitch in outer vertical rows

Circular 4 3/8" vertical 3"

Dia. of tube holes FRONT

stay plain

2 3/4"

BACK

stay plain

Working pressure by rules

Circular 129 lbs

Is each alternate tube in outer vertical rows a stay tube

Tensile strength

Girders to combustion chamber tops: Material

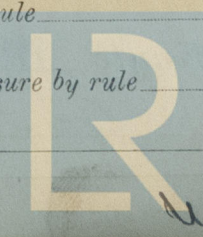
Length as per rule

Depth and thickness of girder at centre

Working pressure by rule

Distance apart

No. and pitch of stays in each



© 2020

Lloyd's Register Foundation

W1282-0132

Crown stays: Material _____ Tensile strength _____ Diameter { at body of stay, _____
 or _____
 over threads _____
 No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____
Screw stays: Material _____ Tensile strength _____ Diameter { at turned off part, _____
 or _____
 over threads _____ No. of threads per inch _____
 Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____
Tubes: Material Steel External diameter { Thimble 2 3/4"
Tapered 2" dia Thickness { 9.B.W.G.
 No. of threads per inch _____ Pitch of tubes 4.86 Circular 3" vertical Working pressure by rules _____
Manhole Compensation: Size of opening in shell plate 13" x 10" Section of compensating ring Mc Naile 1" L No. of rivets and diam _____
 of rivet holes 40 of 1 3/16" Outer row rivet pitch at ends 3 1/4" Depth of flange if manhole flanged _____
Uptake: External diameter 1' 7 1/8" Thickness of uptake plate 9/16"
Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

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

The foregoing is a correct description,
Savoy Bros. Ltd
 (c) E. Astwood Manufacture
Boiler Works Manager

Dates of Survey { During progress of work in shops - - 14/10/30 23/10/30, 4/11/30, 14/11/30 Is the approved plan of boiler forwarded herewith yes
 while building { During erection on board vessel - - _____ (If not state date of approval.)
 Total No. of visits 9

Is this Boiler a duplicate of a previous case _____ If so, state Vessel's name and Report No. _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under Special Survey, and to the approved plan. The materials have been tested in accordance with the Rules and the workmanship is good. These boilers have been despatched to Birkenhead for shipment to Kobe.

Marked.

3541
 No. 530
 Lloyd's Test.
 200 lbs.
 W.P. 100 lbs.
 R.W.F. 14.11.30

3542
 No. 531
 Lloyd's Test
 200 lbs.
 W.P. 100 lbs.
 R.W.F. 14.11.30.

Survey Fee ... £ : : When applied for, 19
 Travelling Expenses (if any) £ : : When received, 19

Committee's Minute FRI. 31 JUL 1931
 Assigned Lee F. E. Rpt.

(Signed) R. W. Yawcett
 Engineer Surveyor to Lloyd's Register of Shipping.