

REPORT ON BOILERS.

No. 16268

Received at London Office

19 MAR 1929

Date of writing Report

18-3-29

When handed in at Local Office

18-3-29

Port of

Grimsby

No. in Book

Survey held at

Lincoln

Date, First Survey

5-2-29

Last Survey

1-3-29

(Number of Visits

5)

Gross

Tons

Net

on the

Built at

Kobe

By whom built

Mitsubishi Zosen Kaisha Ltd.

Yard No. 161

When built

Engines made at

By whom made

Engine No.

When made

Boilers made at

Lincoln

By whom made

Babcock & Wilcox

Boiler No. 73/4597

When made 1929

Boilers

Port belonging to

VERTICAL DONKEY BOILER.

Made at Lincoln By whom made Babcock & Wilcox Boiler No. 73/4597 When made 1929 Where fixed -

Manufacturers of Steel

Parkgate Works Ltd.

Total Heating Surface of Boiler

200 sq. ft.

Is forced draught fitted

Cooler Oil fired

2.5 hp gas

Name and Description of Boilers

One Clarkson, Chamber Lube Vertical

Working pressure

100 lb.

Tested by hydraulic pressure to

200 lb.

Date of test

14 March 1929

No. of Certificate

258

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Two 1 1/2 dia. spring loaded

Area of each set of valves per boiler

per rule 2.60

as fitted 3.534

Pressure to which they are adjusted

See No. 1510729

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

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

3'-9 3/4"

Height

7'-4"

Shell plates: Material

S. K. steel

Tensile strength

26/30 T

Thickness

13/32

Are the shell plates welded or flanged

Description of riveting: circ. seams

OK

long. seams

OK lap

No. of rivet holes in

circ. seams

13/16

Pitch of rivets

1 7/8

Percentage of strength of circ. seams

57.069

of Longitudinal joint

plate 6.9

No. of rivet holes in

long. seams

13/16

2.64

rivets 56.250

rivets 8.0

combined 7.9

Working pressure of shell by rules

160 lb.

Thickness of butt straps

outer

inner

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

flat

Material

S. K. steel

Tensile strength

26/30 T

Thickness

9/16

Radius

Working pressure by rules

228 lb.

Description of Furnace: Plain, spherical, or dished crown

dished

Material

S. K. steel

Tensile strength

26/30 T.

Thickness

5/8"

External diameter

top 2'-10 1/4"

bottom -

Length as per rule

4'-4 1/4"

Working pressure by rules

119 lb.

Pitch of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

Pitch of stays over thread

Radius of spherical or dished furnace crown

Working pressure by rule

149 lb.

Thickness of Ogee Ring

Diameter as per rule

D

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

Pitch of stays over thread

Working pressure of back plate by rules

Shell Plates: Material

front

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Comprising shell, Dia. as per rule

front

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay

BACK

stay

No. of stays in each alternate tube in outer vertical rows

back

Working pressure by rules

front

back

Orders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder at centre

Length as per rule

Distance apart

No. and pitch of stays in each

Working pressure by rule

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W1312-0233

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 _____ External diameter { plain _____ $2 \frac{3}{4}$ "
stay _____ Thickness _____

No. of threads per inch _____ Pitch of tubes _____ Working pressure by rules _____

Manhole Compensation: Size of opening in shell plate _____ Section of compensating ring _____ No. of rivets and diameter _____

of rivet holes _____ Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____

Uptake: External diameter _____ $1'5"$ Thickness of uptake plate _____ $\frac{1}{2}"$ ✓

Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

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

The foregoing is a correct description.

Annual Survey Request.

Manufacturer. _____

Dates of Survey { During progress of work in shops - 1929 Feb 5, 13, 22, 26 Mar 1
while building { During erection on board vessel - - -
Is the approved plan of boiler forwarded herewith (If not state date of approval.) yes
Total No. of visits _____

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

The materials and workmanship are good. This boiler has been built under special survey and is accordance with the Rules and approved plan.

Survey Fee ... £ 4 : 4 : 7 When applied for, 9.3.29

Travelling Expenses (if any) £ : 18/4 When received, 30.4.29

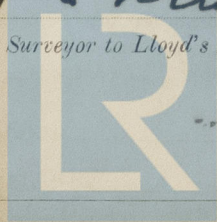
Committee's Minute

FRI. 8 NOV 1929

Assigned

See Note 28.24. No 6676

Engineer Surveyor to Lloyd's Register of Shipping.



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