

REPORT ON BOILERS.

No. 91528

Received at London Office

17 JUN 1927

Date of writing Report 17 JUN 1927

17 JUN 1927

When handed in at Local Office

Port of

London

No. in
Reg. Book

Survey held at

Loughborough

Date, First Survey

1st April 1927

Last Survey

June 13th 1927

(Number of Visits)

3

Gross
Tons
Net

on the

Vertical Boilers made by Messrs. Walter & Colman & Co. Ltd.
for Messrs. Loughborough & Co. Ltd.
now fitted on M.V. KANJA
(for Norwegian Venter Class)

Built at

By whom built

Yard No.

When built

Engines made at

By whom made

Engine No.

When made

Boilers made at

By whom made

Boiler No.

When made

Owners

Port belonging to

This boiler has now been fitted to M.V. Nagara See Got 7504 28/4/29.

VERTICAL DONKEY BOILER.

Made at

Loughborough

By whom made

Walter & Colman & Co. Ltd.

Boiler No. 5062

When made 1927

Where fixed

Manufacturers of Steel

J. A. de la Fabrique de Fer de Charleroi

Total Heating Surface of Boiler

100 sq

Is forced draught fitted

no

Coal or Oil fired

Coal

No. and Description of Boilers

One Vertical. Cross Tube

Working pressure

85 lb

Tested by hydraulic pressure to

170

Date of test

13-6-27

No. of Certificate

1314

Area of Firegrate in each Boiler

10 sq

No. and Description of safety valves to each boiler

2 Spring loaded 2" dia.

Area of each set of valves per boiler

per rule 1.250"
as fitted 6.30"

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 ft.

Height

11' 4"

Shell plates: Material

Steel

Tensile strength

28-32

Thickness

3/4

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end

L.B.

long. seams

5R lap

Dia. of rivet holes in

circ. seams 3/4

long. seams

Pitch of rivets

2" top
2 9/16"

Percentage of strength of circ. seams

plate 62%
rivets 48%

of Longitudinal joint

plate 70%
rivets 74%
combined

Working pressure of shell by rules

140

Thickness of butt straps

outer

inner

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

dished

Material

Steel

Tensile strength

28-32

Thickness

1/2

Radius

4 ft.

Working pressure by rules

130

Description of Furnace: Plain, spherical, or dished crown

dished

Material

Steel

Tensile strength

26-30

Thickness

1/2"

External diameter

top 3' 3"
bottom 3' 7"

Length as per rule

6' 6"

Working pressure by rules

85

Pitch of support stays circumferentially

6 3/4"

and vertically

Are stays fitted with nuts or riveted over

85 rivets

Diameter of stays over thread

1"

Radius of spherical or dished furnace crown

9' 3"

Working pressure by rule

Thickness of Ogee Ring

Diameter as per rule

D

Working pressure by rule

Combustion Chamber: Material

Steel

Tensile strength

26-30

Thickness of top plate

1/2"

Radius if dished

34"

Working pressure by rule

104

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

Tensile strength

back

Thickness

Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule

front

back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay

plain

BACK

stay

plain

Is each alternate tube in outer vertical rows a stay tube

Working pressure by rules

front

back

Girders 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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Foundation

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

Manhole Compensation: Size of opening in shell plate 16×12 Section of compensating ring $6 \times \frac{1}{2}$ No. of rivets and diameter
of rivet holes $44 - \text{dia } \frac{3}{4}$ Outer row rivet pitch at ends $\frac{5\frac{1}{2}}{2}$ Depth of flange if manhole flanged _____

Uptake: External diameter $11"$ Thickness of uptake plate $\frac{1}{2}$

Cross Tubes: No. 4 External diameters { $9"$ Thickness of plates $\frac{3}{8}$

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with Yes.

The foregoing is a correct description,

PER RO W. W. BOLTMAN & CO., LTD

Boltman

Manufacturer.

Dates of Survey { During progress of work in shops - - 1927 Apr 1 May 30 June 13
while building { During erection on board vessel - -

Is the approved plan of boiler forwarded herewith Yes
(If not state date of approval.)

Total No. of visits 3 (2 shops)

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

This boiler has been built under Special Survey in accordance with the plan & the Society's Rules.

The steel used in its construction has been tested according to the Rules.

The workmanship is good.

Upon completion the boiler was tested by hydraulic pressure to 170 lbs per sq. in. & showed no signs of weakness or defect.

The mark is - No. 1314

Hydro test 170 lbs.

W.P. 85 "

13-6-27. A.P.C.

Survey Fee ... £ $4 : 4 :$ When applied for, $17 \text{ JUN } 1927$
Travelling Expenses (if any) £ $3 : 3/6$ When received, $18 \text{ Aug } 1927$

H. Cornick
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 14 MAY 1929

Assigned

Not for Passing Committee

See Got up No 7507 Lloyd's Register Foundation