

5a.

REPORT ON BOILERS.

No.

31716^D

Received at London Office

31 OCT 1949

Writing Report

26/9

19.49

When handed in at Local Office

19

Port of

Rotterdam

in Book

Survey held at

Rotterdam

Date, First Survey

15/10 '49

Last Survey

22/9

19.49

on the

Egbert Vinke

(A.M. 12) ex "Shonan Maru 2"

(Number of Visits 2, 3)

Tons

Gross 355.75
Net 30.80

Built at

Osaka

By whom built

Osaka Iron Works

Yard No.

When built

1938

Made at

Osaka

By whom made

Osaka Iron Works Ltd

Engine No.

When made

1938

Made at

Osaka

By whom made

Osaka Iron Works Ltd

Boiler No.

When made

1938

Horse Power

165

Owners

Ned Maatschappij Walvisvaart N.V.

Port belonging to

Amsterdam

Dimensions in m/m

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

✓

(Letter for Record

✓

Heating Surface of Boilers

282.30 m²

Is forced draught fitted

yes

Coal or Oil fired

Oil

Description of Boilers

One Scotch boiler, three furnaces

Working Pressure

15.5 kg

Tested by hydraulic pressure to

20 kg/cm²

Date of test

23/2 '49

No. of Certificate

✓

Can each boiler be worked separately

✓

Firegrate in each Boiler

✓

No. and Description of safety valves to each boiler

2 - high lift

✓

of each set of valves per boiler

per Rule

as fitted 12.717 kg/cm²

Pressure to which they are adjusted

15.5 kg/cm²

Are they fitted with easing gear

yes

Use of donkey boilers, state whether steam from main boilers can enter the donkey boiler

✓

Least distance between boilers or uptakes and bunkers or woodwork

2000 mm

Is oil fuel carried in the double bottom under boilers

no D.B.

Least distance between shell of boiler and tank top plating

✓

Is the bottom of the boiler insulated

yes

Least internal dia. of boilers

4730

Length

3950

Shell plates: Material

SM steel

Tensile strength

44-51 kg/cm²

Thickness

41

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end double lap

inter

✓

Seams double butt strap

✓

Diameter of rivet holes in

circ. seams

41.5

long. seams

41.5

Pitch of rivets

1.08

1.34-2.68

Percentage of strength of circ. end seams

plate

approved

Percentage of strength of circ. intermediate seam

plate

✓

Percentage of strength of longitudinal joint

plate

approved

Working pressure of shell by Rules

15.5 kg/cm²

approved

Thickness of butt straps

outer 32

inner 36

No. and Description of Furnaces in each Boiler

three Morrison

Material

SM steel

Tensile strength

41-48 kg/cm²

Smallest outside diameter

1206

Thickness of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

welded

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

✓

Working pressure of furnace by Rules

approved

Plates in steam space: Material

SM steel

Tensile strength

41-48

Thickness

36

Pitch of stays

470

Are stays secured

with washers in and out

Working pressure by Rules

approved

Front plates: Material

SM steel

Tensile strength

41-48

Thickness

2.2

Pitch of stay tubes in nests

216 x 206

Pitch across wide water spaces

355

Working pressure

front

back

Plates to combustion chamber tops: Material

SM steel

Tensile strength

44-51

Depth and thickness of girder

Size

270 - 2 x 22

Length as per Rule

920

Distance apart

235 - 215

No. and pitch of stays

Pitch

3 - 215

Working pressure by Rules

appr

Combustion chamber plates: Material

SM steel

Tensile strength

41-48

Thickness: Sides

18

Back

18

Top

18

Bottom

22

Pitch of stays to ditto: Sides

205 x 238

Back

190 x 220

Top

215 x 235

Are stays fitted with nuts or riveted over

riveted over

Working pressure by Rules

appr

Front plate at bottom: Material

SM steel

Tensile strength

41-48

Thickness

2.2

Lower back plate: Material

SM steel

Tensile strength

41-48

Thickness

2.2

Pitch of stays at wide water space

355

391

Are stays fitted with nuts or riveted over

nuts

Working pressure

appr

Main stays: Material

SM steel

Tensile strength

44-51

At body of stay

or

Over threads

35

No. of threads per inch

6

Area supported by each stay

470 x 580

Working pressure by Rules

appr

Screw stays: Material

SM steel

Tensile strength

41-48

At turned off part

or

Over threads

40-55-60

No. of threads per inch

9

Area supported by each stay

190 x 220

X-tweeted outside NOTED

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Working pressure by Rules *Appd* Are the stays drilled at the outer ends *no* Margin stays: Diameter { At turned off part, *✓*
Over threads *62* ✓
No. of threads per inch *9* ✓ Area supported by each stay *220 x 205* Working pressure by Rules *Appd*
Tubes: Material *SC steel* External diameter { Plain *76* ✓
Stay *76* ✓ Thickness { *8-9.5* ✓ No. of threads per inch *9* ✓
Pitch of tubes *108 x 103* ✓ Working pressure by Rules *Appd* Manhole compensation: Size of op
shell plate *630 x 490* ✓ Section of compensating ring *1070 x 130 x 42* ✓ No. of rivets and diameter of rivet holes *36 - 41.5*
Outer row rivet pitch at ends *260* ✓ Depth of flange if manhole flanged *120* ✓ 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 dia
stays *✓* Inner radius of crown *✓* Working pressure by Rules *✓*
How connected to shell *✓* Size of doubling plate under dome *✓* Diameter of rivet holes a
of rivets in outer row in dome connection to shell *✓*
Type of Superheater *no superheater* Manufacturers of { Tubes *✓*
Steel forgings *✓*
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
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 pressu
Rules *✓* Pressure to which the safety valves are adjusted *✓* Hydraulic test p
tubes *✓* forgings and castings *✓* and after assembly in place *✓* Are drain
valves fitted to free the superheater from water where necessary *✓*
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with *yes*

The foregoing is a correct description,

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

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *Please see Report No. 9*

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

Committee's Minute

Assigned

FRI. 30 DEC 1944

See minute on
fe. vpl.



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