

REPORT ON BOILERS.

No. 23329 C.

26 NOV 1934

Received at London Office

Writing Report 9.11.1934 When handed in at Local Office

192

Port of

Rotterdam

Survey held at

M. Rotterdam

Date, First Survey

6th of August

Last Survey

5 Nov

1934

on the

two main boilers S.S. SINT JANS'LAND

Number of Visits 15

Gross 2202

Tons

Net 1194

Built at Alblanerdam

By whom built

Schepu & Jan Fuiten

When built

made at

Flushing

By whom made

Hon Mr. De Schelde

Engine No.

When made

made at

Rotterdam

By whom made

Rott Dwagel Mr

Boiler No.

524

When made

1934

Horse Power

Owners Schepu & Heenkolen Mr

Port belonging to

Rotterdam

TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Mannemund enthen werke

(Letter for Record S ✓)

Heating Surface of Boilers

3710 sq ft ✓

Is forced draught fitted

No

Coal or Oil fired

Coal

Description of Boilers

2 single ended multitubular

Working Pressure

180 lbs ✓

by hydraulic pressure to

320 lb

Date of test

10.9.34

No. of Certificate

964

Can each boiler be worked separately

Yes

Firegrate in each Boiler

50.5 sq ft

No. and Description of safety valves to each boiler

2 spring loaded

of each set of valves per boiler

per Rule

as fitted

3 1/2"

Pressure to which they are adjusted

180 lbs

Are they fitted with easing gear

Yes

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

No

distance between boilers or uptakes and bunkers or woodwork

over 18"

Is oil fuel carried in the double bottom under boilers

No

distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Yes

internal dia. of boilers

13'6"

Length

11'0"

Shell plates: Material

S.M. Steel

Tensile strength

28-32 tons

ss

1/8"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

lap 2 x riv

ams Double butt 3 x riv

Diameter of rivet holes in

circ. seams

1 1/16"

1 3/16"

Pitch of rivets

3 7/8"

3 1/4"

As per

Sudd

6/10/34

age of strength of circ. end seams

plate

67.2%

rivets

44.6%

Percentage of strength of circ. intermediate seam

plate

-

rivets

-

age of strength of longitudinal joint

plate

85.6%

rivets

91.8%

Working pressure of shell by Rules

183 lbs

ss of butt straps

outer

7/8"

inner

1"

No. and Description of Furnaces in each Boiler

3 Monrons

l

S.M. Steel

Tensile strength

26-30 tons

Smallest outside diameter

3'2 1/16"

of plain part

top

-

bottom

Thickness of plates

crown

1 1/4"

bottom

1 3/4"

Description of longitudinal joint

Welded

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

L

Working pressure of furnace by Rules

183 lbs

ates in steam space:

Material S.M. Steel

Tensile strength

26-30 tons

Thickness

1 5/16"

Pitch of stays

18 x 16"

e stays secured

Screwed in plates with nuts outside

Working pressure by Rules

191 lbs

ates: Material

front

S.M. Steel

Tensile strength

26-30 tons

Thickness

1 1/16"

3/4"

itch of stay tubes in nests

8 1/4" x 10 1/8"

Pitch across wide water spaces

1' 3 1/2"

Working pressure

front

193 lbs

back

to combustion chamber tops:

Material S.M. Steel

Tensile strength

28-32 tons

Depth and thickness of girder

e 8 1/4" x 1 1/4"

Length as per Rule

2'5"

Distance apart

8 1/2"

No. and pitch of stays

2 x 9"

Working pressure by Rules

205 lbs

Combustion chamber plates: Material

S.M. Steel

strength

26-30 tons

Thickness: Sides

1 1/16"

Back

1 1/16"

Top

1 1/16"

Bottom

7/8"

stays to ditto:

Sides

9" x 7 1/8"

Back

7 1/2" x 8 1/2"

Top

9" x 8 1/2"

Are stays fitted with nuts or riveted over

Natted

pressure by Rules

217 lbs

Front plate at bottom: Material

S.M. Steel

Tensile strength

26-30 tons

s 1 1/16"

Lower back plate: Material

S.M. Steel

Tensile strength

26-30 tons

Thickness

3/4"

stays at wide water space

14 1/8"

Are stays fitted with nuts or riveted over

Fitted with nuts

Pressure

254 lbs

Main stays: Material

S.M. Steel

Tensile strength

28-30 tons

At body of stay,

2 9/16"

or

Over threads

2 3/4"

No. of threads per inch

9

Area supported by each stay

208 sq in

pressure by Rules

183 lbs

Screw stays: Material

S.M. Steel

Tensile strength

26-30 tons

At turned off part,

1 1/2"

or

Over threads

-

No. of threads per inch

9

Area supported by each stay

63.75 sq in

Working pressure by Rules 196 lb. Are the stays drilled at the outer ends No Margin stays: Diameter ^{At turned off part,} 1 3/4" ^{or} 1 1/4" ^{Over threads}

No. of threads per inch 9 Area supported by each stay 930" Working pressure by Rules 195 lb.

Tubes: Material Steel External diameter ^{Plain} 5 1/4" ^{Stay} 5 1/4" Thickness ^{ON 9} 4 5/8" ¹⁵² 5 1/16" No. of threads per inch 9

Pitch of tubes 4 3/8" x 4 1/16" Working pressure by Rules 180 lb. Manhole compensation: Size of opening 1' 8 3/4" x 1' 4 3/4" Section of compensating ring 2' 4 1/2" x 2' 8 1/2" x 1' 8" No. of rivets and diameter of rivet holes 42 2 1/16"

shell plate 1' 8 3/4" x 1' 4 3/4" Outer row rivet pitch at ends 6 3/4" Depth of flange if manhole flanged 5 1/2" 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 — Inner radius of crown — Working pressure by Rules —

How connected to shell — Size of doubling plate under dome — Diameter of rivet holes —

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 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 —

Rules — Pressure to which the safety valves are adjusted — Hydraulic test pressure —

tubes — castings — and after assembly in place — Are drain cocks or valves to free the superheater from water where necessary —

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

The foregoing is a correct description,

A. Knappe Manager

Dates of Survey ^{During progress of work in shops - -} 6/19 13/18 3/8 12/18 24/26/18 ^{Are the approved plans of boiler and superheater forwarded herewith. (If not state date of approval.)} 18/18 18/18 19/19 19/19 19/19 Copy of Boiler SS 10 1904 signed ON 1904

^{During erection on board vessel - -} 5/10 13/10 15/10 5/11 Total No. of visits 15

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been made in accordance with the approved plan, Society's Rules and Secretary's letters, material tested as required and workmanship good, tested by hydraulic pressure as required and found sound and tight

Survey Fee ... 294.60 When applied for, 24.11. 1924

Travelling Expenses (if any) 5.00 When received, 4.12 1924

Committee's Minute

Assigned

See other Rot. Rpt. 23319

TUE. 4 DEC 1934

FRI. 25 JAN 1935

H. J. Ochoa Engineer & Surveyor to Lloyd's Register of Shipping



© 2019 Lloyd's Register Foundation