

REPORT ON BOILERS.

No. 15749

Received at London Office

Writing Report 1. 10. 1926 When handed in at Local Office

192

Port of Rotterdam

in Surrey held at

Flushing

Date, First Survey

10.5.26

Last Survey

23.8.

1926

on the 2 main boilers of the Huel screw steamer

NOORD HOLLAND

(Number of Visits 9)

Gross Tons

Net

Built at Rotterdam

By whom built

Pyke & Co

Yard No.

When built 1911

es made at

Rotterdam

By whom made

Mr. Pyenood.

Engine No.

When made 1926

s made at

Flushing

By whom made

Mr. De Schelde

Boiler No.

When made 1926

al Horse Power

150

Owners

Schepers & Hankolen, Mr.

Port belonging to

Rotterdam

TITUBULAR BOILERS—MAIN, ~~AUXILIARY~~, OR ~~DONKEY~~.

Manufacturers of Steel

Henschel & Son

(Letter for Record

S. ✓)

Heating Surface of Boilers

2892

Is forced draught fitted

No ✓

Coal or Oil fired

Coal ✓

Description of Boilers

2 Multitubular Marine boilers ✓

Working Pressure

180 lbs

by hydraulic pressure to

240 lb

Date of test

23-8-26

No. of Certificate

846

Can each boiler be worked separately

Yes ✓

of Firegrate in each Boiler

20

No. and Description of safety valves to each boiler

2 Spring loaded ✓

of each set of valves per boiler

per Rule 9.20

as fitted

120 lb

Pressure to which they are adjusted

100 lb

Are they fitted with easing gear

Yes ✓

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

No donkey boiler ✓

st distance between boilers or uptakes and bunkers or woodwork

Over 2 feet

Is oil fuel carried in the double bottom under boilers

No ✓

st distance between shell of boiler and tank top plating

1 foot

Is the bottom of the boiler insulated

No ✓

t internal dia. of boilers

12'-0"

Length

10'-7"

Shell plates: Material

S.M. Heel

Tensile strength

28-32 tons

ess

1-3/2"

Are the shell plates welded or flanged

No ✓

Description of riveting: circ. seams

end lap 1 x riv

ams

Double butt 3 x riv

Diameter of rivet holes in

circ. seams 1 1/8"

long. seams 1 1/8"

Pitch of rivets

7 1/2"

age of strength of circ. end seams

plate 68%

rivets 51%

Percentage of strength of circ. intermediate seam

plate

age of strength of longitudinal joint

plate 85%

rivets 87.5%

Working pressure of shell by Rules

183 lbs

ess of butt straps

outer 1 3/2"

inner 1 3/2"

No. and Description of Furnaces in each Boiler

2 Morrison's patent

of plain part

top

bottom

Thickness of plates

crown 1 1/2"

bottom 3/2"

Description of longitudinal joint

welded ✓

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

No

Working pressure of furnace by Rules

190 lbs

ates in steam space:

Material S.M. Heel

Tensile strength

26-30 tons

Thickness

7/8"

Pitch of stays

16" x 14" ✓

re stays secured

Screwed in plates with nuts outside

Working pressure by Rules

207 lbs

lates: Material

front S.M. Heel

back S.M. Heel

Tensile strength

26-30 tons

Thickness

13/16"

itch of stay tubes in nests

13 1/2" x 8 1/2"

Pitch across wide water spaces

13 3/4"

Working pressure

front 192 lbs

s to combustion chamber tops: Material

S.M. Heel

Tensile strength

28-32 tons

Depth and thickness of girder

re

8 1/4" x 2 x 1/8"

Length as per Rule

2'-8"

Distance apart

8" ✓

No. and pitch of stays

strength

26-30 tons

Thickness: Sides

5/8"

Back

5/8"

Top

5/8"

Bottom

1" ✓

t stays to ditto:

Sides

8" x 1 1/2"

Back

7 1/2" x 1 1/2"

Top

8" x 8"

Are stays fitted with nuts or riveted over

Fitted with nuts

ing pressure by Rules

207 lbs

Front plate at bottom: Material

S.M. Heel

Tensile strength

26-30 tons

Thickness

3/4" ✓

ess

13/16"

Lower back plate: Material

S.M. Heel

Tensile strength

26-30 tons

Thickness

3/4" ✓

of stays at wide water space

13 1/2"

Are stays fitted with nuts or riveted over

Solid heads ✓

ing Pressure

190 lbs

Main stays: Material

S.M. Heel

Tensile strength

28-32 tons

ter

At body of stay,

2 1/2"

No. of threads per inch

9

Area supported by each stay

2720 sq in

ter

Over threads

2 7/8"

Screw stays: Material

S.M. Heel

Tensile strength

26-30 tons

Thickness

60 sq in

ing pressure by Rules

207 lbs

No. of threads per inch

10

Area supported by each stay

60 sq in

ter

At turned off part,

1 1/2"

No. of threads per inch

10

Area supported by each stay

60 sq in

ter

Over threads

1 1/2"

No. of threads per inch

10

Area supported by each stay

60 sq in

Working pressure by Rules 209 lbs Are the stays drilled at the outer ends Yes Margin stays: Diameter ^{At turned off part,} 1 7/8" ^{or} 1 7/8" ^{Over threads}

No. of threads per inch 10 Area supported by each stay 10.75 sq" Working pressure by Rules 275 lbs

Tubes: Material Iron External diameter ^{Plain} 3 1/4" ^{Stay} 3 1/4" Thickness 1/4" & 5/16" No. of threads per inch 10

Pitch of tubes 4 1/2" x 4 1/4" Working pressure by Rules 180 lbs Manhole compensation: Size of 40

shell plate 13 3/4" x 17 3/4" Section of compensating ring 7/8" x 9" No. of rivets and diameter of rivet holes 40

Outer row rivet pitch at ends 6 5/16" Depth of flange if manhole flanged ✓ 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 di

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 sh

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 press

Rules ✓ Pressure to which the safety valves are adjusted ✓ Hydraulic test

tubes ✓ castings ✓ and after assembly in place ✓ Are drain cocks or va

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,
KON. VV. "DE SCHELDE".

Dates of Survey ^{During progress of} 1926 10/15 10/16 10/17 10/18 10/19 10/20 10/21 10/22 10/23 10/24 10/25 10/26 10/27 10/28 10/29 10/30 10/31 ^{work in shops - -} ✓ Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

^{while} ✓ ^{building} ✓ ^{board vessel - - -} ✓ Total No. of visits 9

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been made under Special Survey, in accordance with the applicable Rules and Secretary's letters, tested by hydraulic pressure and found sound and tight

Survey Fee ... £ 231.60 When applied for, 4/10 1926

Travelling Expenses (if any) £ 37.00 When received, 11/10 1926

Committee's Minute FRI. 5 NOV 1926

Assigned

J. F. Schoo
Engineer Surveyor to Lloyd's Register of Shipping

How Boiler fitted