

## REPORT ON BOILERS.

No. 14112

Received at London Office

-9 MAR 1925

Date of writing Report 22.2.1925 When handed in at Local Office

192

Port of Rotterdam

No. in Survey held at

Schiedam

Date, First Survey 1924 1st Nov

Last Survey 22 Jan 1925

Book.

on the

Steel Screw Steamer, DOMINO

(Number of Visits 15)

Gross 1396

Net

ster

Built at

Schiedam

By whom built

Scheepb. Maatsch.

Yard No. 124

When built 1925

ines made at

Schiedam

By whom made

Scheepb. Maatsch. Nieuwe Waterweg

Engine No. 24

When made 1925

lers made at

Schiedam

By whom made

Boiler No. 9091

When made 1925

ninal Horse Power

283 280

Owners

Therman Wilson Line Ltd

Port belonging to

Hull

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

Manufacturers of Steel Willemitsen Buis &amp; Ijzenh. Gewerksch. &amp; Willemitsen Buis &amp; Ijzenh. Co. Letter for Record 5.

al Heating Surface of Boilers

4240 sq ft

Is forced draught fitted

Yes

Coal or Oil fired

Coal

and Description of Boilers

2 Multitubular Marine boilers

Working Pressure

22.5 lbs

ted by hydraulic pressure to

300 lbs

Date of test

17.22 Jan 1925

No. of Certificate

805 806

Can each boiler be worked separately

Yes

a of Firegrate in each Boiler

54 sq ft

No. and Description of safety valves to each boiler

2 sprung loaded high lifting

a of each set of valves per boiler

per Rule

as fitted 3048 mch

Pressure to which they are adjusted

22.5 lbs

Are they fitted with easing gear

Yes

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

No donkey boiler

allest distance between boilers or uptakes and bunkers or woodwork

Over 3' 0"

Is oil fuel carried in the double bottom under boilers

No

allest distance between shell of boiler and tank top plating

2.6"

Is the bottom of the boiler insulated

Yes

gest internal dia. of boilers

13' 6"

Length

12' 4 1/4"

Shell plates: Material

SM Steel

Tensile strength

20-32 tons

ckness

1 13/32"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end lap 2 x w

1. seams

Double butt 3 x riv

Diameter of rivet holes in

circ. seams

1 3/8"

long. seams

1 7/16"

Pitch of rivets

4 1/2"

centage of strength of circ. end seams

plate 69.4%

rivets 62%

Percentage of strength of circ. intermediate seam

plate

rivets

centage of strength of longitudinal joint

plate 84.6%

rivets 87%

combined 86.8%

Working pressure of shell by Rules

22.0 lbs

ckness of butt straps

outer 1 3/32"

inner 1 7/32"

No. and Description of Furnaces in each Boiler

3 x Doughton's patent

terial

SM Steel

Tensile strength

26-30 tons

Smallest outside diameter

3' 4 7/8"

gth of plain part

top

bottom

Thickness of plates

crown 1 1/16"

bottom 1 1/16"

Description of longitudinal joint

Welded

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

Yes

Working pressure of furnace by Rules

24.6 lbs

d plates in steam space: Material

SM Steel

Tensile strength

26-30 tons

Thickness

1 1/16"

Pitch of stays

18 1/2 x 15 1/2"

w are stays secured

Screwed in plates with double nuts

Working pressure by Rules

22.7 lbs

be plates: Material

front SM Steel

back SM Steel

Tensile strength

26-30 tons

Thickness

1 1/16"

Working pressure

front 20.5 lbs

an pitch of stay tubes in nests

7 1/2 x 11 1/4"

Pitch across wide water spaces

13"

Working pressure

back

orders to combustion chamber tops: Material

SM Steel

Tensile strength

20-32 tons

Depth and thickness of girder

10 x 2 x 7/8"

centre

10 x 2 x 7/8"

Length as per Rule

3'-1"

Distance apart

8 1/4"

No. and pitch of stays

each

3 at 8 3/4"

Working pressure by Rules

24.1 lbs

Combustion chamber plates: Material

SM Steel

nsile strength

26-30 tons

Thickness: Sides

2 5/32"

Back

2 3/32"

Top

2 3/32"

Bottom

2 1/32"

ch of stays to ditto: Sides

8 1/4 x 9 1/8"

Back

9 x 8 1/2"

Top

8 1/4 x 8 1/4"

Are stays fitted with nuts or riveted over

Nuttled

orking pressure by Rules

23.7 lbs

Front plate at bottom: Material

SM Steel

Tensile strength

26-30 tons

ickness

7/8"

Lower back plate: Material

SM Steel

Tensile strength

26-30 tons

Thickness

7/8"

ch of stays at wide water space

14 1/4 x 8 1/2"

Are stays fitted with nuts or riveted over

Fitted with nuts

orking Pressure

23.6 lbs

Main stays: Material

SM Steel

Tensile strength

20-32 tons

iameter

At body of stay

2 3/4"

No. of threads per inch

6

Area supported by each stay

27.2 sq in

orking pressure by Rules

24.1 lbs

Screw stays: Material

SM Steel

Tensile strength

26-30 tons

iameter

At turned off part

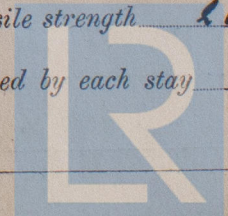
1 3/4"

No. of threads per inch

9

Area supported by each stay

76.5 sq in

Lloyd's Register  
Foundation



Working pressure by Rules 249 lb Are the stays drilled at the outer ends No Margin stays: Diameter 2 1/2" <sup>At turned off part,</sup> or <sup>Over threads</sup> 2 1/2"

No. of threads per inch 9 Area supported by each stay 99 sq" Working pressure by Rules 249 lb

Tubes; Material Steel External diameter 2 1/2" Thickness 3/16" No. of threads per inch 9

Pitch of tubes 3 3/4" Working pressure by Rules 300 lb Manhole compensation: Size of opening 12 x 16"

Section of compensating ring 9 x 1 1/8" No. of rivets and diameter of rivet holes 30 in 1 1/16"

Outer row rivet pitch at ends 9 1/8" 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 - <sup>Plate</sup> - <sup>Rivets</sup> -

Internal diameter - Working pressure by Rules - Thickness of crown - No. and diameter of rivets -

Inner radius of crown - Working pressure by Rules -

How connected to shell - Size of doubling plate under dome - Diameter of rivet holes and 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 off 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 fitted to free the superheater from water where necessary -

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

**NEW WATERWAT SHIPBUILDING CO.**  
SCHEEPSBOUW MAATSCHAPPIJ NIEUWE WATERWEG  
The foregoing is a correct description  
*[Signature]*  
Managing Director

Dates of Survey 1924 <sup>During progress of work in shops - -</sup> 1/11, 2/4, 2/11, 2/18, 2/25, 3/4, 3/11, 3/18, 3/25 Are the approved plans of boiler and superheater forwarded herewith Yes  
<sup>while building</sup> <sup>During erection on board vessel - - -</sup> 3/12, 1925, 4/1, 4/8, 4/15, 4/22, 4/29 (If not state date of approval.) 28-7-24  
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 plans and Secretary's letters, material tested as required and workmanship good. Boilers tested as required by the Rules and found sound and tight

Survey Fee ... .. £ On : When applied for, 192  
Travelling Expenses (if any) Machinery report When received, 192

Committee's Minute PM. 13 MAR 1925

Assigned -

*[Signature]*  
Engineer Surveyor to Lloyd's Register of Shipping  
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