

REPORT ON BOILERS.

No. 25273

Received at London Office

24 FEB 7

Date of writing Report 10.11.1936 When handed in at Local Office

193

Port of

Rotterdam

No. in Survey held at
Reg. Book.

Rotterdam

Date, First Survey

30th of April

Last Survey

15th of Oct 1936

(Number of Visits 14)

Gross

Net

on the

Donkey boiler MV EULIMA

Master

Built at

Schiedam

By whom built

Wilton Tinwood

Yard No.

659

When built 1936

Engines made at

Schiedam

By whom made

Wilton Tinwood

Engine No. 1056 When made 1936

Boilers made at

Rotterdam

By whom made

Rott Drooga My

Boiler No. 535 When made 1936

Nominal Horse Power

Owners

Port belonging to

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

Manufacturers of Steel The Steel Company of Scotland

(Letter for Record S ✓)

Total Heating Surface of Boilers

2560 sq

Is forced draught fitted

Yes ✓

Coal or Oil fired

Oil ✓

No. and Description of Boilers

One Multitubular Marine boiler

Working Pressure 180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test

15.10.36

No. of Certificate

984

Can each boiler be worked separately

✓

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 spring loaded

of each set of valves per boiler

per Rule 112

Pressure to which they are adjusted

180 lbs

Are they fitted with easing gear

Yes ✓

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

Thickmess of washers A 18 mm

Smallest distance between boilers or uptakes and bunkers or woodwork

Over 24"

Is oil fuel carried in the double bottom under boilers

✓

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Yes ✓

Largest internal dia. of boilers

4400 mm

Length

3468 mm

Shell plates: Material

S. M. Steel

Tensile strength

46.8-52 kg/mm²

Thickness

29 mm

Are the shell plates welded or flanged

Welded at

Description of riveting: circ. seams

end Lap. 2x riv

long. seams

Double butt strap 5x riv

Diameter of rivet holes in

circ. seams 30 mm

Pitch of rivets

89 mm

Percentage of strength of circ. end seams

plate 65%

rivets 50%

Percentage of strength of circ. intermediate seam

plate 65%

rivets 50%

Percentage of strength of longitudinal joint

plate 85%

rivets 85%

Working pressure of shell by Rules

12.8 kg/cm²

Thickness of butt straps

outer 25 mm

inner 25 mm

No. and Description of Furnaces in each Boiler

3 Thomson Patent 30%

Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Smallest outside diameter

1130 mm

Length of plain part

top 11 mm

bottom 11 mm

Thickness of plates

crown 15 mm

Description of longitudinal joint

Welded ✓

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

Working pressure of furnace by Rules

13.22 kg/cm²

End plates in steam space: Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Thickness

29.5 mm

Pitch of stays

440 x 450 mm

How are stays secured

Secured in plates with nuts outside

Working pressure by Rules

12.65 kg/cm²

Tube plates: Material

front S. M. Steel

back S. M. Steel

Tensile strength

41-47 kg/mm²

Thickness

23 mm

Mean pitch of stay tubes in nests

196 x 300 mm

Pitch across wide water spaces

360 mm

Working pressure

front 12.8 kg/cm²back 12.8 kg/cm²

Girders to combustion chamber tops: Material

S. M. Steel

Tensile strength

44-50 kg/mm²

Depth and thickness of girder

at centre 220 x 2 x 19 mm

Length as per Rule

776 mm

Distance apart

220 mm

No. and pitch of stays

in each 3 at 200 mm

Working pressure by Rules

17.2 kg/cm²

Combustion chamber plates: Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Thickness: Sides

18 mm

Back

19 mm

Top

18 mm

Bottom

25 mm

Pitch of stays to ditto: Sides

200 mm

Back

200 x 195 mm

Top

200 x 220 mm

Are stays fitted with nuts or riveted over

Riveted over

Working pressure by Rules

15.3 kg/cm²

Front plate at bottom: Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Thickness

23 mm

Lower back plate: Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Pitch of stays at wide water space

366 mm

Are stays fitted with nuts or riveted over

Fitted with nuts

Working Pressure

17.7 kg/cm²

Main stays: Material

S. M. Steel

Tensile strength

44-50 kg/mm²

Diameter

At body of stay, 3"

Over threads

3 1/4"

No. of threads per inch

9

Area supported by each stay

198000 mm²

Working pressure by Rules

15.8 kg/cm²

Screw stays: Material

S. M. Steel

Tensile strength

44-50 kg/mm²

Diameter

At turned off part, 1 3/8"

Over threads

1 1/2"

No. of threads per inch

9

Area supported by each stay

40000 mm²Lloyd's Register
Foundation

W168-0072

Working pressure by Rules 14.11/2 Are the stays drilled at the outer ends Yes Margin stays: Diameter At turned off part, 1 1/2"
 No. of threads per inch 9 Area supported by each stay 50091 mib Working pressure by Rules 14.11/2
 Tubes: Material Iron External diameter 2 1/4" Thickness 5/16" No. of threads per inch 9
 Pitch of tubes 90 x 100 mib Working pressure by Rules 215 lbs Manhole compensation: Size of opening in
 shell plate 370 x 470 mib Section of compensating ring 500 x 800 x 32 mib of rivets and diameter of rivet holes 54 x 32 mib
 Outer row rivet pitch at ends 110 mib Depth of flange of manhole flanged Compensating ring Steam Dome: Material C
 Tensile strength C Thickness of shell C Description of longitudinal joint C
 Diameter of rivet holes C Pitch of rivets C Percentage of strength of joint Plate C
 Internal diameter C Working pressure by Rules C Thickness of crown C No. and diameter of
 stays C Inner radius of crown C Working pressure by Rules C
 How connected to shell C Size of doubling plate under dome C Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell C
 Type of Superheater C Manufacturers of Tubes C
 Number of elements C Material of tubes C Internal diameter and thickness of tubes C
 Material of headers C Tensile strength C Thickness C Can the superheater be shut off and
 the boiler be worked separately C Is a safety valve fitted to every part of the superheater which can be shut off from the boiler C
 Area of each safety valve C Are the safety valves fitted with easing gear C Working pressure as per
 Rules C Pressure to which the safety valves are adjusted C Hydraulic test pressure:
 tubes C, castings C and after assembly in place C Are drain cocks or valves fitted
 to free the superheater from water where necessary C

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

ROTTERDAMSCH DROOGDOZ MAATSCHAPPIJ

Directeur

A. Knappe

The foregoing is a correct description,

Manufacturer.

Dates of Survey During progress of work in shops - 30/4/13, 25/5/13, 8/14/13, 19/20/8/10/13/15
while building - 14/15/13, 15/15/13, 16/8/13, 19/10/10/10/10
 Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) Retained
 Total No. of visits 14

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

This boiler has been made in accordance with the approved plan, Society's Rules and Secretary's letter, material tested as required and workmanship good.

Survey Fee ... 205.00 When applied for, 192
 Travelling Expenses (if any) 2.00 When received, 10.12.1926

Committee's Minute FRI 26 FEB 1937

Assigned See other F.E. report



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