

REPORT ON BOILERS.

No. 27920^c

Received at London Office

MAR -6 1939

Date of writing Report 12.11.38 When handed to Local Office

192

Port of

Rotterdam

No. in Survey held at
Reg. Book.

Flushing

Date, First Survey

16th of June

Last Survey

12th of Nov 1938

(Number of Visits 10)

Gross

Tons

Net

on the Donkey Boiler m/v.

"CORILLA"

Master

Built at

Schiedam

By whom built

Wilton Tjenow

Yard No.

664

When built

1938

Engines made at

Schiedam

By whom made

Wilton Tjenow

Engine No.

1049

When made

1938

Boilers made at

Flushing

By whom made

Kon Mey. De Schelde

Boiler No.

1049

When made

1938

Nominal Horse Power

502

Owners

N.V. Petroleum Maats. La Corona

Port belonging to

S. Gravenhage

MULTITUBULAR BOILERS ~~WATER~~ ~~STEAM~~ OR DONKEY.

Manufacturers of Steel

The Steel Co. 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

12.11.38

No. of Certificate

1014

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 spring loaded

Area of each set of valves per boiler

per Rule

as fitted

90 mm

Pressure to which they are adjusted

100 lb

Are they fitted with easing gear

Yes

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

Yes

Thickness of valves

11 mm

Smallest distance between boilers or uptakes and bunkers or woodwork

none

Is oil fuel carried in the double bottom under boilers

Yes

Smallest distance between shell of boiler and tank top plating

Donkey boiler in 'tween deck 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 outer ends in way of

butt straps

Description of riveting: circ. seams

end lap 2 x riv

long. seams

Double butt straps 3 x riv

Diameter of rivet holes in

circ. seams 30 mm

long. seams 30 mm

Pitch of rivets

83 mm

Percentage of strength of circ. end seams

plate 64%

rivets 52%

Percentage of strength of circ. intermediate seam

plate 85%

rivets 85%

Percentage of strength of longitudinal joint

plate 85%

rivets 85%

combined 84%

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 Morrison Patent

Material

S. M. Steel

Tensile strength

41-47 kg/mm²

Smallest outside diameter

1130 mm

Length of plain part

top 2

bottom 2

Thickness of plates

crown 15 mm

bottom 15 mm

Description of longitudinal joint

Welded

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

none

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 mm

Pitch of stays

440 x 410 mm

How are stays secured

Secured in plates with nuts inside and 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

200 x 294 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 120 x 2 x 19 mm

Length as per Rule

776 mm

Distance apart

220 mm

No. and pitch of stays

in each 3 à 200 mm

Working pressure by Rules

12.65 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

250 mm

Back

200 x 195 mm

Top

200 x 200 mm

Are stays fitted with nuts or riveted over

Riveted over

Working pressure by Rules

13.3 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

Thickness

23 mm

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

41-47 kg/mm²

Diameter

At body of stay, 3

Over threads 3 1/4

No. of threads per inch

9

Area supported by each stay

190000 mm²

Working pressure by Rules

15.5 kg/cm²

Screw stays: Material

S. M. Steel

Tensile strength

41-47 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

40100 mm²

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Working pressure by Rules 14.1 kg/cm² Are the stays drilled at the outer ends Yes Margin stays: Diameter { At turned off part, 1 7/16" or Over threads 1 5/8" }
No. of threads per inch 9 Area supported by each stay 50091 mm² Working pressure by Rules 14.1 kg/cm²
Tubes: Material Iron External diameter { Plain 2 3/4" Stay 2 3/4" } Thickness 5/16" No. of threads per inch 9
Pitch of tubes 98 x 100 mm Working pressure by Rules 215 lb Manhole compensation: Size of opening in shell plate 370 x 470 mm Section of compensating ring 480 x 880 x 52 mm No. of rivets and diameter of rivet holes 54 x 52 mm
Outer row rivet pitch at ends 220 mm Depth of flange of manhole flanged 100 mm Steam Dome: Material Iron
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 and pitch 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 and 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 as per 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 —

The foregoing is a correct description,
N.V. Kon. Mij. De Schelde Manufacturer.

Dates of Survey { During progress of work in shops - - 16/5 23/7 24/7 9/8 19/8 24/8 1/9 14/9 } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) Retained
while building { During erection on board vessel - - - }
Total No. of visits 10

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been made in accordance with the approved plan. Society of Rules and Secretary's letters. Material tested as required and workmanship good.

Survey Fee ... 204.80 When applied for, 28. 11 1938
Travelling Expenses (if any) 28.00 When received, 5. 12 1938

Committee's Minute FRI. 10 MAR 1939

Assigned See PE machy rpt



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