

## REPORT ON BOILERS.

No. 15788<sup>c</sup>

Received at London Office 29 OCT 1939

Date of writing Report 96 Oct 1939 When handed in at Local Office 19

Port of Amsterdam

No. in Survey held at Reg. Book.

Amsterdam

Date, First Survey 2 Sept 1938

Last Survey 12 Sept 1939

on the Single screw Motor vessel "TARIA"

(Number of Visits 18)

Gross 10354.34  
Tons Net 6146.14

Master Built at Amsterdam By whom built N.V. Schepb 144

Yard No. 273 When built 1939

Engines made at Amsterdam By whom made N.V. Werkhoven

Engine No. 744 When made 1939

Boilers made at Amsterdam By whom made N.V. Werkhoven

Boiler No. 2024/130 When made 1939

Nominal Horse Power 620

Owners N.V. Petroleum M<sup>t</sup>. de Carona

Port belonging to is Gravenhage

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

Manufacturers of Steel The Brownside Steelworks &amp; Deutsche Büchsenwerke A.G. Werk Thyssen (Letter for Record 5)

Total Heating Surface of Boilers 2 x 203 M<sup>2</sup>: 4360 M<sup>2</sup> Is forced draught fitted Yes Coal or Oil fired oil

No. and Description of Boilers 2 Multitubular single ended Working Pressure 12.65 kg

Tested by hydraulic pressure to 3204 BS Date of test 10.5.39 No. of Certificate 441-442 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler

Diam Area of each set of valves per boiler {per Rule approved as fitted 2 x 80 mm Pressure to which they are adjusted 100 lbs Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boilers

Smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers no

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 3900 mm Length 3700 mm Shell plates: Material SMS Tensile strength 47.50 kg

Thickness 27 mm Are the shell plates welded or flanged Description of riveting: circ. seams {end abt welded inter. 25 mm

long. seams {triple welded dbt butt shap Diameter of rivet holes in {circ. seams 20 mm long. seams 20 mm Pitch of rivets {25 mm 192 mm

Percentage of strength of circ. end seams {plate 67% rivets 42.2% Percentage of strength of circ. intermediate seam {plate 85.64% rivets 80%

Percentage of strength of longitudinal joint {plate 85.64% rivets 80% combined 88.4% Working pressure of shell by Rules 13.6 kg

Thickness of butt straps {outer 25 mm inner 25 mm No. and Description of Furnaces in each Boiler Two Morisson's

Material SMS Tensile strength 41.47 kg Smallest outside diameter 1130 mm

Length of plain part {top Thickness of plates {crown 15 mm bottom Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 13.6 kg

End plates in steam space: Material SMS Tensile strength 41.47 kg Thickness 27 mm Pitch of stays 400 x 450

How are stays secured double nuts Working pressure by Rules 13 kg

Tube plates: Material {front SMS Tensile strength {41.47 kg Thickness {23 mm back 22 mm

Mean pitch of stay tubes in nests 247 mm Pitch across wide water spaces 370 mm Working pressure {front 14.6 kg back 14.2 kg

Girders to combustion chamber tops: Material SMS Tensile strength 44.50 kg Depth and thickness of girder

at centre 220 mm x 30 mm Length as per Rule 700 mm Distance apart 225 mm No. and pitch of stays

in each 3.200 mm Working pressure by Rules 15 kg Combustion chamber plates: Material SMS

Tensile strength 41.47 kg Thickness: Sides 19 mm Back 19 mm Top 19 mm Bottom 25 mm

Pitch of stays to ditto: Sides 200 x 200 mm Back 145 mm x 203 Top 200 x 225 mm Are stays fitted with nuts or riveted over riveted over

Working pressure by Rules 14.8 kg Front plate at bottom: Material SMS Tensile strength 41.47 kg

Thickness 23 mm Lower back plate: Material SMS Tensile strength 41.47 kg Thickness 23 mm

Pitch of stays at wide water space 370 x 177 mm Are stays fitted with nuts or riveted over with nuts

Working Pressure 10 kg Main stays: Material SMS Tensile strength 44.50 kg

Diameter {At body of stay, 2 3/4" No. of threads per inch 8 Area supported by each stay 1800 cm<sup>2</sup>

Working pressure by Rules 14 kg Screw stays: Material SMS Tensile strength 41.47 kg

Diameter {At turned off part, 1 1/2" No. of threads per inch 9 Area supported by each stay 395 cm<sup>2</sup>

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Working pressure by Rules 14.3 kg Are the stays drilled at the outer ends Yes Margin stays: Diameter { At turned off part, or Over threads. 1 5/8"  
No. of threads per inch 9 Area supported by each stay 500 cm<sup>2</sup> Working pressure by Rules 13.8 kg  
Tubes: Material Steel External diameter { Plain 2 3/4" Stay 2 3/4" Thickness { 3.65 mm 5/16" x 2-7/16" No. of threads per inch 9  
Pitch of tubes 100 x 90 mm Working pressure by Rules 15 kg Manhole compensation: Size of opening in shell plate 390 x 490 mm Section of compensating ring 179 cm<sup>2</sup> No. of rivets and diameter of rivet holes 54-32 mm  
Outer row rivet pitch at ends 220 mm Depth of flange if manhole flanged 0 mm Steam Dome: Material L  
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 forgings 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 forgings and 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 22 inclusive for boilers been complied with

WERKSPoor N.V.

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - - Sept 2 Oct 7 Nov 10 Jan 19 Feb 9-25 Are the approved plans of boiler and superheater forwarded herewith 14-2-20  
while building { During erection on board vessel - - - March 23-29 April 11-17-24 May 1-18 (If not state date of approval.)  
Total No. of visits 10

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. Mr. Tibia Amers N<sup>o</sup> 15738

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

The Boilers have been made under special survey in accordance with the approved plans. Secretary's letter Material duly tested, workmanship throughout good

Survey Fee ... .. £ : : When applied for, 19  
Travelling Expenses (if any) £ : : When received, 19

*[Signature]*

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 27 OCT 1939

Assigned

See Amers. N<sup>o</sup> 15788



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