

REPORT ON BOILERS.

No. 1980^C

Received at London Office.

10 FEB 1950

Date of writing Report 9-1-1949 When handed in at Local Office 1949 Port of Rotterdam

No. in Reg. Book. Survey held at Vlissingen & Schiedam Date, First Survey 25-2-48 Last Survey 20-12-1949

on the motor tank vessel "MYTRA" (Number of Visits 11) Tons Gross Net

Master Built at Schiedam By whom built Wilton-Fijenoord Yard No. 720 When built 1949

Engines made at Schiedam By whom made Wilton-Fijenoord Engine No. 1093 When made 1949

Boilers made at Vlissingen By whom made Kon. Mij. "de Schelde" Boiler No. 1135 When made 1949

Nominal Horse Power 614 Owners M.T.T. "La Corona" Port belonging to's Gravenhagen

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel V.A. Kovic Steel Works, Pilsen (Letter for Record S.)

Total Heating Surface of Boilers 406 m² 4360 D 42 boilers Is forced draught fitted Yes Coal or Oil fired oil fired

No. and Description of Boilers 2 multitubular scotch Working Pressure 12.55 kg

Tested by hydraulic pressure to 22.40 kg Date of test 25-2-49 No. of Certificate 1070-1079 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 7.0 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

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 8900 mm Length 3735 mm Shell plates: Material S.M. steel Tensile strength 44-53 kg/cm²

Thickness 28 mm Are the shell plates welded or flanged Description of riveting: circ. seams end lap 2 x 4 in.

Long. seams double butt 3 riv. Diameter of rivet holes in circ. seams 32 mm Pitch of rivets 100 mm

Percentage of strength of circ. end seams plate rivets Percentage of strength of circ. intermediate seam plate rivets

Percentage of strength of longitudinal joint plate rivets Working pressure of shell by Rules

Thickness of butt straps outer 28 mm inner 20 mm No. and Description of Furnaces in each Boiler 2 Morrison's

Material S.M. steel Tensile strength 41-47 kg/cm² Smallest outside diameter 1200 mm 1130 mm

Length of plain part top bottom Thickness of plates crown 15 mm bottom 25 mm Description of longitudinal joint welded

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

Stays in steam space: Material S.M. steel Tensile strength 41-50 kg/cm² Thickness 23 mm Pitch of stays 440 x 380 mm

Are stays secured secured on both sides Working pressure by Rules

Front plates: Material S.M. steel Tensile strength 41-50 kg/cm² Thickness 23 mm

Pitch of stay tubes in nests 190 x 190 Pitch across wide water spaces 370 mm Working pressure front back

Stays to combustion chamber tops: Material S.M. steel Tensile strength 44-53 kg/cm² Depth and thickness of girder

Centre 220 mm 12 x 19 mm Length as per Rule 700 mm Distance apart 220 mm No. and pitch of stays

Each 3 x 190 mm Working pressure by Rules Combustion chamber plates: Material S.M. steel

Tensile strength 41-50 kg/cm² Thickness: Sides 17 mm Back 19 mm Top 17 mm Bottom 25 mm

Pitch of stays to ditto: Sides 190 x 190 mm Back 200 x 195 mm Top 190 x 220 mm Are stays fitted with nuts or riveted over rivets over

Working pressure by Rules Front plate at bottom: Material S.M. steel Tensile strength 41-50 kg/cm²Thickness 23 mm Lower back plate: Material S.M. steel Tensile strength 41-50 kg/cm² Thickness 23 mm

Pitch of stays at wide water space 195 x 370 mm Are stays fitted with nuts or riveted over rivets over margin nuts

Working pressure by Rules Main stays: Material S.M. steel Tensile strength 44-50 kg/cm²

At body of stay 70 mm No. of threads per inch 6 Area supported by each stay

Over threads 8.2 mm 7.6 mm Screw stays: Material S.M. steel Tensile strength 41-50 kg/cm²

Working pressure by Rules At turned off part 35 mm 37 mm No. of threads per inch 19 Area supported by each stay

Over threads

Working pressure by Rules. ✓ Are the stays drilled at the outer ends Yes Margin stays: Diameter 3 1/4" { At turned off part ✓ or Over threads ✓
No. of threads per inch 9 Area supported by each stay ✓ Working pressure by Rules ✓
Tubes: Material SM steel External diameter { Plain 7.0" Thickness 4 7/8" No. of threads per inch 9
Pitch of tubes 102 x 90" Working pressure by Rules ✓ Manhole compensation: Size of opening ✓
shell plate 420 x 520" Section of compensating ring 760 x 860" No. of rivets and diameter of rivet holes welded
Outer row rivet pitch at ends ✓ Depth of flange if manhole flanged ✓ Steam Dome: Material ✓
Tensile strength ✓ Thickness of shell ✓ Description of longitudinal joint ✓ Plate ✓
Diameter of rivet holes ✓ Pitch of rivets ✓ Percentage of strength of joint ✓ Rivets ✓
Internal diameter ✓ Working pressure by Rules ✓ Thickness of crown ✓ No. and diameter ✓
stays ✓ Inner radius of crown ✓ Working pressure by Rules ✓ Diameter of rivet holes and ✓
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 ✓
Number of elements ✓ Material of tubes ✓ Internal diameter and thickness of tubes ✓ Steel forgings ✓
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 ✓ Working pressure ✓
Area of each safety valve ✓ Are the safety valves fitted with easing gear ✓ Hydraulic test pres ✓
Rules ✓ Pressure to which the safety valves are adjusted ✓ Are drain coo ✓
tubes ✓ forgings and castings ✓ and after assembly in place ✓
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 ✓

The foregoing is a correct description,
P.P. N.Y. KON. N.Y. "DE SCHRELD" Manufact ✓

Dates of Survey while building { During progress of work in shops -- 25/2 - 4/5 - 26/10 - 12/10 - 9/12 - 48 Are the approved plans of boiler and superheater forwarded herewith no
During erection on board vessel --- 4-20/1 - 18-25/2 - 49 (If not state date of approval.) 19-4-
Total No. of visits 3/0 - 20/2 - 49

Is this Boiler a duplicate of a previous case no If so, state Vessel's name and Report No. ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been made in accordance with the approved plan Secretary's letter and the Society Rules. All materials have been tested by the Society's Surveyors and the workmanship is good. In my opinion these boilers merits the approval of the Committee. Boilers fitted on board. Safety valves adjusted under steam. Thickness washers SB No. 1. 4.0" No. 2. 1.3" PB No. 1. 18.7" No. 2. 18.6"

Survey Fee ... £ 848.00
Travelling Expenses (if any) £ 75.00

When applied for 12/7 1949
When received 29/8 1949

P.H. Bounce
Engineer Surveyor to Lloyd's Register of Sh

Committee's Minute FRI. 10 MAR 1950

Assigned for units see J.E. Rpt.



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