

REPORT ON BOILERS.

No. 20869

25 JAN 1932

Received at London Office

Date of writing Report 6-1-1932 When handed in at Local Office

192

Port of

Rotterdam

No. in Survey held at

Rotterdam

Date, First Survey 30.9.30

Last Survey 12.1.1932

on the T.M. MALVINA

(Number of Visits 15)

Gross Tons

Net

Built at Rotterdam By whom built M. Tienwood

Yard No. 320

When built 1932

Engines made at Amsterdam By whom made J.V. Werkspoor

Engine No.

When made 1932

Boilers made at Rotterdam By whom built M. Tienwood

Boiler No. 14018

When made 1932

Indicated Horse Power 713

Owners Petroleum M. La Corona

Port belonging to Gravenhage

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Besenrodt Stahlwerke & G. Walderke Thyssen

(Letter for Record S)

Total Heating Surface of Boilers

2452 sq

Is forced draught fitted

yes

Coal or Oil fired

oil

Name and Description of Boilers

Two multitubular marine boilers

Working Pressure

150 lbs

Tested by hydraulic pressure to

270 lbs

Date of test 4.3.31

No. of Certificate 945

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

1

No. and Description of safety valves to each boiler

2, spring loaded

Area of each set of valves per boiler

per Rule

as fitted

Pressure to which they are adjusted 150 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 boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

1400 mm

Is oil fuel carried in the double bottom under boilers

yes

Smallest distance between shell of boiler and tank top plating

1

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

8200 mm

Length 2200 mm

Shell plates: Material

S. M. Steel

Tensile strength

46.8-52 kg

Thickness

20 mm

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end

cap & riv

Long. seams

Double butt & riv

Diameter of rivet holes in

circ. seams

25 mm

Pitch of rivets

84 mm

Percentage of strength of circ. end seams

plate 71%

rivets 43.3%

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate 80.8%

rivets 38.5%

Working pressure of shell by Rules

11 kg/cm²

Thickness of butt straps

outer 19 mm

inner 19 mm

No. and Description of Furnaces in each Boiler

Two masonry patent

Material

S. M. Steel

Tensile strength

41-47 kg/cm²

Smallest outside diameter

872 mm

Length of plain part

top

bottom

Thickness of plates

crowd

bottom

11 mm

Description of longitudinal joint

Welded

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

1

Working pressure of furnace by Rules

12.6 kg/cm²

Stays in steam space

Material S. M. Steel

Tensile strength

41-47 kg/cm²

Thickness

23 mm

Pitch of stays 400 mm

How are stays secured

Double nuts

Working pressure by Rules

12.6 kg/cm²

Front plates: Material

front S. M. Steel

Tensile strength

41-47 kg/cm²

Thickness

23 mm

Back plates: Material

back S. M. Steel

Tensile strength

41-47 kg/cm²

Thickness

19 mm

Pitch of stay tubes in nests

300 x 200 mm

Pitch across wide water spaces

360 mm

Working pressure

front 13.6 kg/cm²

Stays to combustion chamber tops: Material

S. M. Steel

Tensile strength

47.50 kg/cm²

Depth and thickness of girder

160 x 16 mm

Length as per Rule

650 mm

Distance apart

200 mm

No. and pitch of stays

2 at 210 mm

Working pressure by Rules

11.9 kg/cm²

Combustion chamber plates: Material

S. M. Steel

Tensile strength

41-47 kg/cm²

Thickness

17 mm

Sides

17 mm

Back

17 mm

Top

17 mm

Bottom

17 mm

How of stays to ditto

Sides 705 x 210

Back 109 x 210

Top 200 x 210

Are stays fitted with nuts or riveted over

Riveted over

Working pressure by Rules

11.6 kg/cm²

Front plate at bottom: Material

S. M. Steel

Tensile strength

41-47 kg/cm²

Thickness

23 mm

Lower back plate: Material

S. M. Steel

Tensile strength

41-47 kg/cm²

Thickness

23 mm

How of stays at wide water space

330 x 150 mm

Are stays fitted with nuts or riveted over

mitted

Working Pressure

Main stays: Material

S. M. Steel

Tensile strength

44-50 kg/cm²

At body of stay

2 3/8"

Over threads

2 3/8"

No. of threads per inch

8

Area supported by each stay

160000 mm²

Working pressure by Rules

11 kg/cm²

Screw stays: Material

S. M. Steel

Tensile strength

41-47 kg/cm²

At turned off part

Over threads

1 1/8"

No. of threads per inch

11

Area supported by each stay

40250 mm²

Working pressure by Rules *11.5 kg/cm²* Are the stays drilled at the outer ends *Yes* Margin stays: Diameter { At turned off part, *7/16"* or Over threads *7/16"*

No. of threads per inch *11* Area supported by each stay *49144 mm²* Working pressure by Rules *11.5 kg/cm²*

Tubes: Material *Iron* External diameter { Plain *2 3/4"* Stay *2 3/4"* Thickness { *21.9 mm* No. of threads per inch *11*

Pitch of tubes *100 mm* Working pressure by Rules *215 kg/cm²* Manhole compensation: Size of opening in shell plate *400x500 mm* Section of compensating ring *165x25 flanged* No. of rivets and diameter of rivet holes *42 x 25 mm*

Outer row rivet pitch at ends *140 mm* Depth of flange if manhole flanged *ring 60 mm* Steam Dome: Material *-*

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 *-*

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 *-*

WILTON-FIJENOORD.
(N.V. WILTON'S Machinefabriek en Scheepswerk)
(WILTON'S Engineering & Slipway Co.)
Maatschappij voor Scheeps- en Werktuigbouw
The foregoing is a correct description,
Wilton Manufacturer.

Dates of Survey { During progress of work in shops - - *1930 12/13, 12/14, 12/15, 12/16, 12/17, 12/18, 12/19, 12/20, 12/21, 12/22, 12/23, 12/24, 12/25, 12/26, 12/27, 12/28, 12/29, 12/30, 1931 1/1, 1/2, 1/3, 1/4, 1/5, 1/6, 1/7, 1/8, 1/9, 1/10, 1/11, 1/12, 1/13, 1/14, 1/15, 1/16, 1/17, 1/18, 1/19, 1/20, 1/21, 1/22, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/29, 1/30, 1932 2/1, 2/2, 2/3, 2/4, 2/5, 2/6, 2/7, 2/8, 2/9, 2/10, 2/11, 2/12, 2/13, 2/14, 2/15, 2/16, 2/17, 2/18, 2/19, 2/20, 2/21, 2/22, 2/23, 2/24, 2/25, 2/26, 2/27, 2/28, 2/29, 2/30, 1933 3/1, 3/2, 3/3, 3/4, 3/5, 3/6, 3/7, 3/8, 3/9, 3/10, 3/11, 3/12, 3/13, 3/14, 3/15, 3/16, 3/17, 3/18, 3/19, 3/20, 3/21, 3/22, 3/23, 3/24, 3/25, 3/26, 3/27, 3/28, 3/29, 3/30, 1934 4/1, 4/2, 4/3, 4/4, 4/5, 4/6, 4/7, 4/8, 4/9, 4/10, 4/11, 4/12, 4/13, 4/14, 4/15, 4/16, 4/17, 4/18, 4/19, 4/20, 4/21, 4/22, 4/23, 4/24, 4/25, 4/26, 4/27, 4/28, 4/29, 4/30, 1935 5/1, 5/2, 5/3, 5/4, 5/5, 5/6, 5/7, 5/8, 5/9, 5/10, 5/11, 5/12, 5/13, 5/14, 5/15, 5/16, 5/17, 5/18, 5/19, 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