

REPORT ON BOILERS.

W1153-0109

No. 15647B

Received at London Office MAY 11 1939

of writing Report 9 May 1939 When handed in at Local Office

Port of Amsterdam JUL 19 1939

Survey held at

Amsterdam

Date, First Survey 2 Sept

Last Survey 20 March 1939

on the Single Screw M.V. OSCILLA

(Number of Visits 10) Gross Tons Net

Built at Krimpen 2/2 yard

By whom built N.V.C. & G. G. 12th Yard No. 657 When built 1939

Lines made at

Amsterdam

By whom made N.V. Werkspoor

Engine No. 740 When made 1939

Boiler made at

Amsterdam

By whom made N.V. Werkspoor

Boiler No. 2031 When made 1939

Original Horse Power

377

Owners

Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Shell of Scotland Brownside Boiler works (Letter for Record S)

Heating Surface of Boilers

2560

Is forced draught fitted Yes

Coal or Oil fired oil fired

Description of Boilers

One horizontal multitubular boiler

Working Pressure 180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test 20.3.39

No. of Certificate 440

Can each boiler be worked separately

No. of Firegrate in each Boiler

No. and Description of safety valves to each boiler 2 opening loaded

No. of each set of valves per boiler

per Rule approved

as fitted 19.60 Pressure to which they are adjusted 180 lbs

Are they fitted with easing gear Yes

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

Least distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

Least distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated Yes

Least internal dia. of boilers

4400 mm

Length 2460

Shell plates: Material SMS

Tensile strength 29.75 ton

Thickness

29 mm

Are the shell plates welded or flanged

Description of riveting: circ. seams end double welded

Seams

all butt straps

Diameter of rivet holes in

circ. seams 30 mm

long. seams 30 mm

Pitch of rivets

87 mm

Percentage of strength of circ. end seams

plate 67.5%

rivets 42.3%

Percentage of strength of circ. intermediate seam

plate

Percentage of strength of longitudinal joint

plate 85%

rivets 85%

Working pressure of shell by Rules 180 lbs

Percentage of strength of combined

combined 87%

Thickness of butt straps

outer 25 mm

inner 25 mm

No. and Description of Furnaces in each Boiler

3 Morison's furnaces

Material

SMS

Tensile strength

26.30 ton

Smallest outside diameter 1130 mm

Thickness of plain part

top

bottom

Thickness of plates

crown

bottom

15 mm

Description of longitudinal joint welded

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

Working pressure of furnace by Rules 193 lbs

Plates in steam space: Material

SMS

Tensile strength

26.30 ton

Thickness

29 mm

Pitch of stays 440 x 450 mm

Are stays secured double nuts

Working pressure by Rules 190 lbs

Plates: Material

front SMS

back SMS

Tensile strength

26.30 ton

Thickness

35 mm

22 mm

Pitch of stay tubes in nests

240 mm

Pitch across wide water spaces

360 mm

Working pressure

front 230 lbs

back 210 lbs

Plates to combustion chamber tops: Material

SMS

Tensile strength

20.32 ton

Depth and thickness of girder

Centre 220 x 30 mm

Length as per Rule

780 mm

Distance apart

220 mm

No. and pitch of stays

Back 3.200 mm

Working pressure by Rules

210 lbs

Combustion chamber plates: Material SMS

Tensile strength

26.30 ton

Thickness: Sides

10 mm

Back

19 mm

Top

10 mm

Bottom 25 mm

Of stays to ditto: Sides 200 x 200

Back 226 x 195 mm

Top 200 x 220 mm

Are stays fitted with nuts or riveted over welded over

Working pressure by Rules

196 lbs

Front plate at bottom: Material SMS

Tensile strength 26.30 ton

Thickness

23 mm

Lower back plate: Material

SMS

Tensile strength

26.30 ton

Thickness

25 mm

Of stays at wide water space

366 mm

Are stays fitted with nuts or riveted over filled with nuts

Working Pressure

190 lbs

Main stays: Material

SMS

Tensile strength 20.32 ton

At body of stay

3"

No. of threads per inch

8

Area supported by each stay 3060"

Over threads

No. of threads per inch

8

Area supported by each stay 3060"

Working pressure by Rules

220 lbs

Screw stays: Material

SMS

Tensile strength 26.30 ton

At turned off part

1 1/2"

No. of threads per inch

11

Area supported by each stay 6025"

Over threads

No. of threads per inch

11

Area supported by each stay 6025"

Working pressure by Rules 1954 BS 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 11 Area supported by each stay 77.50" Working pressure by Rules 1964 BS
Tubes: Material *Iron* External diameter { Plain 2 3/4" Stay 2 3/4" Thickness { No. 9 L.S.G. 3/16" No. of threads per inch 11
Pitch of tubes 100 x 90 mm Working pressure by Rules plain tube 215. 3/16" = 1954 BS Manhole compensation: Size of opening in
shell plate 3/8 x 4/10 Section of compensating ring 370" No. of rivets and diameter of rivet holes 54 x 32 mm
Outer row rivet pitch at ends 220 mm Depth of flange if manhole flanged 80 mm Steam Dome: Material *None*
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 *Yes*

WERKSPOR N.V.

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - Sept 2. Oct 10 Jan 16-23 Feb 9-23 Are the approved plans of boiler and superheater forwarded herewith
while building { During erection on board vessel - - - March 1-25-23-20 (If not state date of approval.)
Total No. of visits

Is this Boiler a duplicate of a previous case *Yes* If so, state Vessel's name and Report No. *MY OPINA Am up 152286*

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

The Boiler has been made under special survey to approved plan, Secretary's letters and the Society's rules.
Material duly tested workmanship throughout good
Boiler hydraulic tested as per rules found sound & tight
The Boiler has been shipped to humpen of Greenland will be fitted aboard *Munro & Gunn's* Jan 4 = 657
The boiler has been satisfactorily fitted in the *M.V. "Asquilla"*

Survey Fee ... £ 204 -
Travelling Expenses (if any) £ -

When applied for, 10-5-1939
When received, 7-6-39

L. London Cyl
7.6.39

E. J. J. J. J.

Engineer Surveyor to Lloyd's Register of Shipping.

FRI 28 JUL 1939

Committee's Minute

Assigned

See Rot. 7.E. 28393



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Foundation