

Rpt. 5a.

REPORT ON BOILERS.

No. 19996

Received at London Office

10 JAN 1931

Date of writing Report

5 Jan. 1931

When handed in at Local Office

192

Port of

Rotterdam

No. in Survey held at

Rotterdam

Date, First Survey

9 April 30

Last Survey

30 Dec. 1930

Reg. Book.

on the

S.S. ANASTASIA

(Number of Visits 13.)

Gross 3020.06
Tons Net 1604.92

Master

Built at

Rotterdam

By whom built

Meepes Burgerhout

Yard No.

123

When built

1930

Engines made at

Amsterdam

By whom made

Meepes Weesp

Engine No.

When made

1930

Boilers made at

Rotterdam

By whom made

Meepes Burgerhout

Boiler No.

When made

1930

Nominal Horse Power

2 x 190

Owners

Red. Maasche tank Mij.

Port belonging to

Gravenhage

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

Manufacturers of Steel Meepes David Colville & Sons Ltd of Glasgow. (Letter for Record S.)

Total Heating Surface of Boilers

926 ft² = 86.66 m²

Is forced draught fitted

No

Coal or Oil fired

Oil.

No. and Description of Boilers

One multitubular marine boiler

Working Pressure 150 lb.

Tested by hydraulic pressure to

175 lbs

Date of test

10 Aug 30

No. of Certificate

936

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

1 Spring loaded (high & low)

Area of each set of valves per boiler

per boiler 2 x 60 m diam.

Pressure to which they are adjusted

150 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

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

3000 mm

Length

2990 mm

Shell plates: Material

S.M. steel

Tensile strength

47.52 k.g.

Thickness

20 mm

Are the shell plates welded or flanged

Description of riveting: circ. seams

Long. seams

Butt strap 2 x 200

Diameter of rivet holes in

circ. seams 25.4 mm

long. seams 25.4 mm

Pitch of rivets

130 mm

Percentage of strength of circ. end seams

plate 66.5%

Percentage of strength of circ. intermediate seam

plate 53.2%

Percentage of strength of longitudinal joint

plate 82.46%

Working pressure of shell by Rules

13.1 k.g.

Thickness of butt straps

outer 10 mm

inner

21 mm

No. and Description of Furnaces in each Boiler

1 Morrison.

Material

S.M. steel

Tensile strength

26-30 ton.

Smallest outside diameter

812 mm

Length of plain part

top

Thickness of plates

crown 11 mm

Description of longitudinal joint

Welded.

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

Working pressure of furnace by Rules

13.4 k.g.

End plates in steam space:

Material S.M. steel

Tensile strength

27.4-33 ton

Thickness

13 mm

Pitch of stays

30 x 375 mm

How are stays secured

Ahead in plate nuts inside & outside.

Working pressure by Rules

11.9 k.g.

Tube plates: Material

front S.M. steel

Tensile strength

26-30 ton.

Thickness

23 mm

Lean pitch of stay tubes in nests

200 mm

Pitch across wide water spaces

360 mm

Working pressure

front 10 k.g.

Girders to combustion chamber tops:

Material S.M. steel

Tensile strength

20-32 ton.

Depth and thickness of girder

165 x 2 x 14 mm

Distance apart

190 mm

No. and pitch of stays

each 2 a 190 mm

Working pressure by Rules

14 k.g.

Combustion chamber plates: Material

S.M. steel

Tensile strength

26-30 ton

Thickness: Sides

17 mm

Back

17 mm

Top

17 mm

Pitch of stays to ditto:

Sides 190 x 190 mm

Back 190 x 190 mm

Top 190 x 190 mm

Are stays fitted with nuts or riveted over

welded over.

Working pressure by Rules

13 k.g.

Front plate at bottom: Material

S.M. steel

Tensile strength

27.4-33 ton

Thickness

13 mm

Lower back plate: Material

S.M. steel

Tensile strength

27.4-33 ton

Thickness

13 mm

Pitch of stays at wide water space

300 mm

Are stays fitted with nuts or riveted over

fitted with nuts.

Working Pressure

15 k.g.

Main stays: Material

S.M. steel

Tensile strength

20-32 ton.

Diameter: At body of stay,

2 1/4"

Over threads

2 1/2" x 2 1/4"

No. of threads per inch

6

Area supported by each stay

142500 mm²

Working pressure by Rules

10.5 k.g.

Screw stays: Material

S.M. steel

Tensile strength

26-30 ton.

Area supported by each stay

36000 mm²

Diameter: At turned off part,

1 3/8"

Over threads

No. of threads per inch

9

Area supported by each stay

36000 mm²Lloyd's Register
F1043-0081

Working pressure by Rules 12.7 k.g. Are the stays drilled at the outer ends Yes Margin stays: Diameter ^{At turned off part.} 1 5/8"
 No. of threads per inch 9 Area supported by each stay 5.4 7/20 m² Working pressure by Rules 12.6 k.g.
 Tubes: Material Iron External diameter ^{Plain} 1 3/4" ^{Stay} 1 3/4" Thickness ^{3.65 m} 1/4" - 5/16" No. of threads per inch 9
 Pitch of tubes 100 m Working pressure by Rules 15 k.g. Manhole compensation: Size of opening in
 shell plate 435 x 535 m Section of compensating ring 035 x 935 m No. of rivets and diameter of rivet holes 36 21 m
 Outer row rivet pitch at ends 172 m Depth of flange if manhole flanged 90 m 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 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 ✓

BURGERHOUT'S MACHINEFABRIEK & SCHEEPSWERF N.V.

G. Verwey

The foregoing is a correct description,

Manufacturer.

Dates of Survey ^{During progress of work in shops - -} April 9-17-14-30
^{while building} ^{During erection on board vessel - -} May 10 June 14-25-28
July 3 - 8 Aug 12-18
Dec 19-30

Are the approved plans of boiler and superheater forwarded herewith 30/1/30
 (If not state date of approval.)
 Total No. of visits 13

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

This boiler has been made under Special Survey in accordance with the approved plans. Society's rules and Secretary's letter material tested as required and workmanship good.

Survey Fee ... £ 75.00

Travelling Expenses (if any) £ :

When applied for, 9/1

1921

When received, 14/2/1922

1922

M. Verwey
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 27 JAN 1931

Assigned

See Rot. J.C. 19996



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