

REPORT ON BOILERS.

No. 15512^B

Received at London Office

JAN 18 1939

Date of writing Report 9 January 1939 When handed in at Local Office

19

Port of Amsterdam

No. in Survey held at
Reg. Book.

Amsterdam

Date, First Survey

26 Sept 1938

Last Survey 16 Dec

1938

on the

Single Screw M.V. NIGERSTROOM

(Number of Visits 9)

Gross
Tons
Net

Master

Built at

Krupp & Co. Ltd

By whom built

N.V. C. & J. G. van der Meer

Yard No.

656

When built

1938

Engines made at

Amsterdam

By whom made

N.V. Werkspoor

Engine No.

731

When made

1938/39

Boilers made at

Amsterdam

By whom made

N.V. Werkspoor

Boiler No.

2047

When made

1938

Nominal Horse Power

618

Owners

N.V. Hollandse Stoomv. Mts

Port belonging to

Amsterdam

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

Manufacturers of Steel

Messrs Deutsche Rohrenwerke A.G. Werk Pilsen

Mühlheim

(Letter for Record)

Total Heating Surface of Boilers

75 M² 807 ft²

Is forced draught fitted

Yes

Coal or Oil fired oil fired

No. and Description of Boilers

one horizontal Marine type

Working Pressure

7 kg/cm² = 100 lb/cm²

Tested by hydraulic pressure to

2004 BS

Date of test

16-12-38

No. of Certificate

436

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

4 of spring loaded high lifting

Area of each set of valves per boiler

per Rule 2940 m²/m²as fitted 3100 m²/m²

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

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

2850 mm

Length

2840 mm

Shell plates: Material

SMS

Tensile strength

49.3/52.3 kg/cm²

Thickness

13 mm

Are the shell plates welded or flanged

Description of riveting: circ. seams

end Single

long. seams

all butt straps

Diameter of rivet holes in

circ. seams 22 mm

long. seams 20 mm

Pitch of rivets

54 mm

Percentage of strength of circ. end seams

plate 59

rivets 42

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate 75

rivets 84

Working pressure of shell by Rules

7.35 kg

Thickness of butt straps

outer 13 mm

inner 13 mm

No. and Description of Furnaces in each Boiler

2 Morrison's

Material

SMS

Tensile strength

41.47 kg

Smallest outside diameter

770 mm

Length of plain part

top

bottom

Thickness of plates

crown 10 mm

bottom 10 mm

Description of longitudinal joint

welded

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

Working pressure of furnace by Rules

12.9 kg

End plates in steam space: Material

SMS

Tensile strength

42.8/44.7

Thickness

20 mm

Pitch of stays

450 mm

How are stays secured

all nuts & washers

Working pressure by Rules

9.1 kg

Tube plates: Material

front SMS

back

Tensile strength

41.47 kg

Thickness

20 mm

17 mm

Mean pitch of stay tubes in nests

280 mm

Pitch across wide water spaces

360 mm

Working pressure

front 8.1 kg

back 9.2 kg

Girders to combustion chamber tops: Material

SMS

Tensile strength

44.50 kg

Depth and thickness of girder

at centre

190 mm x 2 x 17 mm

Length as per Rule

600 mm

Distance apart

2 x 280 - 1 x 200 mm

No. and pitch of stays

in each

one

Working pressure by Rules

8.6 kg

Combustion chamber plates: Material

SMS

Tensile strength

41.47 kg

Thickness: Sides

15 mm

Back

15 mm

Top

15 mm

Bottom

Pitch of stays to ditto: Sides

280 mm

Back

199 mm

Top

200 mm

Are stays fitted with nuts or riveted over

riveted over

Working pressure by Rules

7.35 kg

Front plate at bottom: Material

SMS

Tensile strength

41.47 kg

Thickness

20 mm

Lower back plate: Material

S.M.S.

Tensile strength

41.47 kg

Thickness

20 mm

Pitch of stays at wide water space

320 mm x 15 mm

Are stays fitted with nuts or riveted over

riveted over

Working Pressure

12.8 kg/cm²

Main stays: Material

SMS

Tensile strength

44.50 kg

Diameter

At body of stay

2 1/4"

No. of threads per inch

8

Area supported by each stay

20200 mm²

Working pressure by Rules

7.75 kg

Screw stays: Material

SMS

Tensile strength

41.47 kg

Diameter

At turned off part

1 1/4"

No. of threads per inch

11

Area supported by each stay

42500 mm²

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Working pressure by Rules *8.5 kg* Are the stays drilled at the outer ends *no* Margin stays: Diameter { At turned off part, *1 1/2" x 1 1/4"*
No. of threads per inch *11* Area supported by each stay *72000 x 41600 m²* Working pressure by Rules *7.85 kg + 0.7 kg*
Tubes: Material *SMS* External diameter { Plain *2 3/4"* Thickness { *3.65 m/m* No. of threads per inch *11*
Pitch of tubes *100 x 100 mm* Working pressure by Rules *11.0 kg* Manhole compensation: Size of opening in
shell plate *375 x 475 mm* Section of compensating ring *80 cm²* No. of rivets and diameter of rivet holes *40-25 mm*
Outer row rivet pitch at ends (*100 mm*) Depth of flange if manhole flanged *75 mm* Steam Dome: Material *c*
Tensile strength *-* Thickness of shell *2* Description of longitudinal joint *-*
Diameter of rivet holes *c* Pitch of rivets *c* Percentage of strength of joint { Plate *c*
Internal diameter *c* Working pressure by Rules *c* Thickness of crown *c* Rivets *c* No. and diameter of
stays *c* Inner radius of crown *c* Working pressure by Rules *c*
How connected to shell *c* 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

WERKSPOR N.V.

The foregoing is a correct description,

Manufacture

Dates of Survey { During progress of work in shops - - *Sat 26 Oct 1925* Are the approved plans of boiler and superheater forwarded herewith
while building { During erection on board vessel - - - *See 6-7-16* (If not state date of approval.)
Total No. of visits

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.)

The Boiler has been built under special survey, in accordance with the rules & Secretary's letter, workmanship throughout good. Material duly tested

The Boiler has been shipped to Krumpen & Gjelstad and will be fitted aboard on M/V R. & Gjelstad's 2nd Jarat N^o 656
The boiler has been satisfactorily fitted on board of the
m.v. "Nigunthorn"
G. Willmann

Survey Fee ... *65-* : When applied for, *17-1-* 19 *29*
Travelling Expenses (if any) *£* : When received, *6-2-* 19 *39/9/2*

Burgdoff
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 21 APR 1939

Assigned

See FE machy rpt.



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