

REPORT ON BOILERS.

No. 13634.

Received at London Office

22 FEB 1926

Date of writing Report

192

When handed in at Local Office

192

Port of *Amsterdam*No. in Survey held at
Reg. Book.*Amsterdam*Date, First Survey *14 January*Last Survey *27 January* 1926(Number of Visits *7*)

Gross

Tons

Net

on the *Messrs C. v. d. Guehen Jand No 629*

Master

Built at *Krumpen 4/4 sel*By whom built *K.V.C.P. Gussens & Zn's*Yard No. *629*When built *1926*Engines made at *Amsterdam*By whom made *Messrs Werkspoor*

Engine No.

When made *1926*D. Boilers made at *Amsterdam*By whom made *Messrs K.V. Werkspoor*Boiler No. *2729*When made *1926*

Nominal Horse Power

Owners *Comp. Shell Fishbaw*

Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel *Messrs Deutsche Rohrenwerke & G. Werke Thyssen*

(Letter for Record)

Total Heating Surface of Boilers *500 sq ft*Is forced draught fitted *no*Coal or Oil fired *oil*No. and Description of Boilers *1 Horizontal Multitubular donkey boiler*Working Pressure *180 lbs*Tested by hydraulic pressure to *320 lbs*Date of test *27 January*No. of Certificate *420*Can each boiler be worked separately *✓*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 *3.2.0"*
as fitted *4.90"*Pressure to which they are adjusted *180 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 *2250 mm*Length *2700 mm*Shell plates: Material *SM S*Tensile strength *46.52 kg*Thickness *17 mm*Are the shell plates welded or flanged *no*Description of riveting: circ. seams *end*inter. *✓*long. seams *dbl butt shops, dbl rivets*

Diameter of rivet holes in

circ. seams *22 mm*Pitch of rivets *116 mm*

Percentage of strength of circ. end seams

plate *70%*
rivets *46%*

Percentage of strength of circ. intermediate seam

plate *✓*
rivets *✓*

Percentage of strength of longitudinal joint

plate *81%*
rivets *82.5%*
combined *89.5%*Working pressure of shell by Rules *180 lbs*

Thickness of butt straps

outer *17 mm*
inner *17 mm*No. and Description of Furnaces in each Boiler *One Napier's furnace*Material *SM S*Tensile strength *41-47 kg/mm²*Smallest outside diameter *720 mm*

Length of plain part

top *✓*
bottom *✓*

Thickness of plates

crown *10 mm*
bottom *✓*Description of longitudinal joint *welded*Dimensions of stiffening rings on furnace or c.c. bottom *✓*Working pressure of furnace by Rules *197 lbs*End plates in steam space: Material *SM S*Tensile strength *41-47 kg/mm²*Thickness *22 mm*Pitch of stays *375 mm*How are stays secured *dbl nuts strengthening plate inside*Working pressure by Rules *206 lbs*

Tube plates: Material

front *SM S*
back *SM S*Tensile strength *41-47 kg/mm²*Thickness *22 mm*Mean pitch of stay tubes in nests *245 mm*Pitch across wide water spaces *340 mm*

Working pressure

front *190 lbs*
back *190 lbs*Girders to combustion chamber tops: Material *SM S*Tensile strength *44-50 kg/mm²*

Depth and thickness of girder

at centre *160 x 32 mm*Length as per Rule *600 mm*Distance apart *190 mm*

No. and pitch of stays

in each *2 x 200 mm*Working pressure by Rules *200 lbs*Combustion chamber plates: Material *SM S*Tensile strength *41-47 kg/mm²*Thickness: Sides *10 mm*Back *10 mm*Top *10 mm*Bottom *10 mm*Pitch of stays to ditto: Sides *200 x 200*Back *199 x 209 mm*Top *200 x 190 mm*Are stays fitted with nuts or riveted over *welded over*Working pressure by Rules *102 lbs*Front plate at bottom: Material *SM S*Tensile strength *41-47 kg/mm²*Thickness *22 mm*Lower back plate: Material *SM S*Tensile strength *41-47 kg/mm²*Thickness *22 mm*Pitch of stays at wide water space *199 mm*Are stays fitted with nuts or riveted over *welded over*Working Pressure *310 lbs*Main stays: Material *SM S*Tensile strength *44-50 kg/mm²*

Diameter

At body of stay, *2 5/8"*
or
Over threadsNo. of threads per inch *8*Area supported by each stay *2400"*Working pressure by Rules *206 lbs*Screw stays: Material *SM S*Tensile strength *41-47 kg/mm²*

Diameter

At turned off part, *1 1/2"*
or
Over threadsNo. of threads per inch *9*Area supported by each stay *650"*

Working pressure by Rules *100 lbs* Are the stays drilled at the outer ends *yes* Margin stays: Diameter *At turned off part, or Over threads 1 1/2"*
No. of threads per inch *9* Area supported by each stay *77 sq"* Working pressure by Rules
Tubes: Material *SM S* External diameter *Plain 2 3/4"* Thickness *2 3/4"* No. of threads per inch *11*
Pitch of tubes *90 mm* Working pressure by Rules *200 lbs* Manhole compensation: Size of opening in
shell plate *375 x 475 mm* Section of compensating ring *14 sq"* No. of rivets and diameter of rivet holes *40 - 25 mm*
Outer row rivet pitch at ends *125 mm* Depth of flange if manhole flanged *80 mm* Steam Dome: Material *C*
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 22 inclusive for boilers been complied with

The foregoing is a correct description,

WERKSPOR N.V.

Manufacturer.

Dates of Survey *During progress of work in shops - -*
while building *During erection on board vessel - - -*

Jan 14, 16, 17, 21, 23, 25, 27

Are the approved plans of boiler and superheater forwarded herewith *E 13.9.25*
(If not state date of approval.)

Total No. of visits

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

This donkey boiler has been made in accordance with the rules and Secretary's letters. Material duly tested. Workmanship throughout good.

Survey Fee ... *50.40* :

When applied for.

192

Travelling Expenses (if any) *2.00* :

When received.

13-3-

1926,

Committee's Minute

FRI. 3 APR 1926

Assigned

See F.C. Rpt.

Engdiffe

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation