

## REPORT ON BOILERS.

No. 16524

Received at London Office

20 JUN 1927

Writing Report 10.6.1927 When handed in at Local Office

192

Port of

Rotterdam

Survey held at

Rotterdam

Date, First Survey

30.7.25

Last Survey

14.10.1926

1926

on the Donkey boiler M.V. "GOLDMOUTH"

(Number of Visits

2)

Gross

Tons

Net

Built at

Rotterdam

By whom built

My Tjenwoord

Yard No. 303

When built 1923

made at

Amsterdam

By whom made

Werkspoor

Engine No.

When made 1927

made at

Rotterdam

By whom made

My Tjenwoord

Boiler No. 1519

When made 1927

Horse Power

1200

Owners

Anglo Saxon Petroleum Co

Port belonging to

London

## TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Dawson Colville &amp; Sons Ltd

(Letter for Record S)

Heating Surface of Boilers

2452 sq ft

Is forced draught fitted

Yes

Coal or Oil fired

Oil

Description of Boilers

2 Multifibular donkey boilers

Working Pressure

180 lbs

by hydraulic pressure to

320 lbs

Date of test

14.10.26

No. of Certificate

848

Can each boiler be worked separately

Yes

Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 high lifting spring loaded

of each set of valves per boiler

per Rule

as fitted

6038 sq ft

Pressure to which they are adjusted

180 lbs

Are they fitted with easing gear

Yes

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

No main

distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

internal dia. of boilers

3200

Length

3250

Shell plates: Material

S.M. Steel

Tensile strength

46-52 tons

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end lap 2x riv

Diameter of rivet holes in

circ. seams

25 mesh

long. seams

25 mesh

Pitch of rivets

81 mesh

Percentage of strength of circ. end seams

plate

69.2%

rivets

45%

Percentage of strength of circ. intermediate seam

plate

-

Percentage of strength of longitudinal joint

plate

85.3%

rivets

98.2%

combined

88.2%

Working pressure of shell by Rules

13.05 kg

of butt straps

outer 17 mesh

inner 20 mesh

No. and Description of Furnaces in each Boiler

2 Thomson patent

Material

S.M. Steel

Tensile strength

41-47 kg

Smallest outside diameter

874 mesh

of plain part

top

bottom

Thickness of plates

crown

12 mesh

Description of longitudinal joint

Welded

of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

14.6 kg

plates in steam space: Material

S.M. Steel

Tensile strength

41-47 kg

Thickness

25 mesh

Pitch of stays 400x400

re stays secured

Screwed in plates with nuts on both sides

Working pressure by Rules

12.6 kg

plates: Material

front S.M. Steel

back S.M. Steel

Tensile strength

41-47 kg

Thickness

25 mesh

20 mesh

Pitch of stay tubes in nests

200 x 300 mesh

Pitch across wide water spaces

1360 mesh

Working pressure

front 12.6 kg

back -

to combustion chamber tops: Material

S.M. Steel

Tensile strength

44-50 kg

Depth and thickness of girder

160 x 2 x 18 mesh

Length as per Rule

650 mesh

Distance apart

200 mesh

No. and pitch of stays

2 x 210 mesh

Working pressure by Rules

16.7 kg

Combustion chamber plates: Material

S.M. Steel

Tensile strength

41-47 kg

Thickness: Sides

18 mesh

Back 18 mesh

Top 18 mesh

Bottom 18 mesh

Top 18 mesh

Bottom 18 mesh

Top 18 mesh

Bottom 18 mesh

Top 18 mesh

Bottom 18 mesh

Top 18 mesh

Bottom 18 mesh

Top 18 mesh

Bottom 18 mesh

Stays to ditto: Sides

110 x 103

Back

113 x 103

Top

210 x 200

Are stays fitted with nuts or riveted over

riveted over

Working pressure by Rules

13.6 kg

Front plate at bottom: Material

S.M. Steel

Tensile strength

41-47 kg

Thickness

25 mesh

20 mesh

Lower back plate: Material

S.M. Steel

Tensile strength

41-47 kg

Thickness

25 mesh

20 mesh

25 mesh

20 mesh

Stays at wide water space

330 mesh

Are stays fitted with nuts or riveted over

Fitted with nuts

Working pressure

27.7 kg

Main stays: Material

S.M. Steel

Tensile strength

44-50 kg

At body of stay, or

60 mesh

Over threads

70 mesh

Working pressure by Rules

16.6 kg

Screw stays: Material

S.M. Steel

Tensile strength

41-47 kg

At turned off part, or

30 mesh

Over threads

40 mesh

No. of threads per inch

9

Area supported by each stay

16000 sq

Working pressure by Rules

16.6 kg

No. of threads per inch

9

Area supported by each stay

16000 sq

At turned off part, or

30 mesh

Over threads

40 mesh

No. of threads per inch

9

Area supported by each stay

16000 sq

At turned off part, or

30 mesh

Over threads

40 mesh

40 mesh

40 mesh

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Working pressure by Rules *14.05/14* Are the stays drilled at the outer ends *Yes* Margin stays: Diameter { At turned off part, *58 mm* or Over threads }  
No. of threads per inch *9* Area supported by each stay *39 mm* Working pressure by Rules *14.4/14*  
Tubes: Material *Iron* External diameter { Plain *2 3/4"* Stay *2 3/4"* Thickness { *1/4"* } No. of threads per inch *9*  
Pitch of tubes *100 mm* Working pressure by Rules *20.0 lb.* Manhole compensation: Size of opening in  
shell plate *410 x 510 mm* Section of compensating ring *105 x 10 mm* No. of rivets and diameter of rivet holes *34 x 50 mm*  
Outer row rivet pitch at ends *220 mm* Depth of flange if *manhole* flanged *85 mm* Steam Dome: Material *Iron*  
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 *Yes*

The foregoing is a correct description,  
Maatschappij voor Scheeps- en Werktuigbouw  
"FIJENOORD" Manufacturer

Dates of Survey { During progress of work in shops - - - *1925-27 1924 24 9 7 27 8 10* Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) *24.4.25*  
while building { During erection on board vessel - - - *18 14/10* Total No. of visits *9*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been made under special survey in accordance with the approved plans, Lloyds Rules and Secretary's letters, materials tested as required and workmanship good*

Survey Fee ... .. £ *146.20* When applied for, *16/6* 192 *7*  
Travelling Expenses (if any) £ *16.00* When received, *29-7* 192 *7*

Committee's Minute *FRI. 24 JUN 1927*  
Assigned *See B. pt. attached*



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