

## REPORT ON BOILERS.

No. 19131

Received at London Office

Writing Report 30-12-1929 When handed in at Local Office

192-

Port of

Rotterdam

Survey held at

Rotterdam

Date, First Survey

Oct 22

Last Survey

Nov 29<sup>th</sup>

1929

Book.

(Number of Visits

9

Gross

1654.28

Tons

Net 916.77

on the Boilers of the S.S. "SOCOMBEL"

Built at

Schiedam

By whom built

Schiedam My

Yard No.

165

When built

1930

Boilers made at

Schiedam

By whom made

Schiedam My

Engine No.

106

When made

1930

Boilers made at

Rotterdam

By whom made

Rott Drooga my

Boiler No.

491-98

When made

1929

Nominal Horse Power

234

Owners

S.M. Socombel Transports.

Port belonging to

Peracus

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

Manufacturers of Steel Societe Anonyme des Usines Metallurgiques de la Baso. Loire (Letter for Record 5)

Heating Surface of Boilers

3845 sq ft

Is forced draught fitted

Coal or Oil fired

Oil

Kind and Description of Boilers

2 Single ended Multitubular Main 2 SB.

Working Pressure

180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test

26-11-29

No. of Certificate

925

Can each boiler be worked separately

Yes

No. of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 High lifted.

No. of each set of valves per boiler

per Rule

4830

as fitted

4540

Pressure to which they are adjusted

100 lb

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

Over 2 feet

Is oil fuel carried in the double bottom under boilers

No

Least distance between shell of boiler and tank top plating

2 feet

Is the bottom of the boiler insulated

Yes

Least internal dia. of boilers

3800 mm

Length

3400 mm

Shell plates: Material

S.M. Steel

Tensile strength

44-50 kg/mm<sup>2</sup>

Thickness

27 mm

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

lap 2 x riv/mm

Pitch of rivets

93 mm

Percentage of strength of circ. end seams

plate 10%

rivets 49%

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate 85%

rivets 86.5%

combined 87.5%

Working pressure of shell by Rules

13.1 kg/cm<sup>2</sup>

Thickness of butt straps

outer 21 mm

inner 24 mm

No. and Description of Furnaces in each Boiler

2 Moirons patent 2 CF

Material

S.M. Steel

Tensile strength

26-30 tons

Smallest outside diameter

1078 mm

Length of plain part

top

bottom

Thickness of plates

crown 15 mm

bottom

Description of longitudinal joint

Welded

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

C

Working pressure of furnace by Rules

14.5 kg/cm<sup>2</sup>

Stays in steam space: Material

S.M. Steel

Tensile strength

41-44 kg/mm<sup>2</sup>

Thickness

27 mm

Pitch of stays

435 x 580 mm

How are stays secured

Screwed in plates and nutted outside

Working pressure by Rules

12.4 kg/cm<sup>2</sup>

Main plates: Material

front S.M. Steel

back S.M. Steel

Tensile strength

41-44 kg/mm<sup>2</sup>

Thickness

20 mm

Pitch of stay tubes in nests

192 x 188 mm

Pitch across wide water spaces

370 mm

Working pressure

front 13.4 kg/cm<sup>2</sup>

back

Orders to combustion chamber tops: Material

S.M. Steel

Tensile strength

44-50 kg/mm<sup>2</sup>

Depth and thickness of girder

215 x 2 x 20 mm

Length as per Rule

840 mm

Distance apart

230 mm

No. and pitch of stays

each 3 at 215 mm

Working pressure by Rules

13.6 kg/cm<sup>2</sup>

Combustion chamber plates: Material

S.M. Steel

Tensile strength

41-44 kg/mm<sup>2</sup>

Thickness: Sides

10 mm

Back

10 mm

Top

10 mm

Pitch of stays to ditto: Sides

200 x 118 mm

Back

200 x 205

Top

215 x 230

Are stays fitted with nuts or riveted over

Riveted over

Working pressure by Rules

12.6 kg/cm<sup>2</sup>

Front plate at bottom: Material

S.M. Steel

Tensile strength

41-44 kg/mm<sup>2</sup>

Thickness

20 mm

Lower back plate: Material

S.M. Steel

Tensile strength

41-44 kg/mm<sup>2</sup>

Thickness

10 mm

Pitch of stays at wide water space

370 mm

Are stays fitted with nuts or riveted over

Fitted with nuts

Working Pressure

20.6 kg/cm<sup>2</sup>

Main stays: Material

S.M. Steel

Tensile strength

44-50 kg/mm<sup>2</sup>

Area supported by each stay

165300 mm<sup>2</sup>

Diameter

At body of stay, 65 mm

No. of threads per inch

9

Area supported by each stay

165300 mm<sup>2</sup>

Over threads

70 mm

Working pressure by Rules

15.4 kg/cm<sup>2</sup>

Screw stays: Material

S.M. Steel

Tensile strength

41-44 kg/mm<sup>2</sup>

Area supported by each stay

43000 mm<sup>2</sup>

Diameter

At turned off part, 37 mm

No. of threads per inch

9

Area supported by each stay

43000 mm<sup>2</sup>

Over threads

41 mm



Working pressure by Rules 15.849 Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 43.5 mm or Over threads 47.5 mm  
No. of threads per inch 9 Area supported by each stay 58425 mm<sup>2</sup> Working pressure by Rules 16.2 kg/cm<sup>2</sup>  
Tubes: Material Steel External diameter { Plain 2 3/4" Thickness 2 3/4" No. of threads per inch 9  
Pitch of tubes 96 mm Working pressure by Rules 15 kg Manhole compensation: Size of opening in shell plate 420 x 520 mm Section of compensating ring 196 x 27 mm No. of rivets and diameter of rivet holes 38 to 28 mm  
Outer row rivet pitch at ends 190 mm Depth of flange if unflanged 85 mm 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 -  
How connected to shell - Inner radius of crown - Working pressure by Rules -  
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,

10/1/30

A. Knappe Manufacturer.

Dates of Survey { During progress of work in shops - 1/12/10 1/11/10 1/12/10 1/1/11 1/2/11 1/3/11 1/4/11 1/5/11 1/6/11 1/7/11 1/8/11 1/9/11 1/10/11 1/11/11 1/12/11 1/1/12 1/2/12 1/3/12 1/4/12 1/5/12 1/6/12 1/7/12 1/8/12 1/9/12 1/10/12 1/11/12 1/12/12 1/1/13 1/2/13 1/3/13 1/4/13 1/5/13 1/6/13 1/7/13 1/8/13 1/9/13 1/10/13 1/11/13 1/12/13 1/1/14 1/2/14 1/3/14 1/4/14 1/5/14 1/6/14 1/7/14 1/8/14 1/9/14 1/10/14 1/11/14 1/12/14 1/1/15 1/2/15 1/3/15 1/4/15 1/5/15 1/6/15 1/7/15 1/8/15 1/9/15 1/10/15 1/11/15 1/12/15 1/1/16 1/2/16 1/3/16 1/4/16 1/5/16 1/6/16 1/7/16 1/8/16 1/9/16 1/10/16 1/11/16 1/12/16 1/1/17 1/2/17 1/3/17 1/4/17 1/5/17 1/6/17 1/7/17 1/8/17 1/9/17 1/10/17 1/11/17 1/12/17 1/1/18 1/2/18 1/3/18 1/4/18 1/5/18 1/6/18 1/7/18 1/8/18 1/9/18 1/10/18 1/11/18 1/12/18 1/1/19 1/2/19 1/3/19 1/4/19 1/5/19 1/6/19 1/7/19 1/8/19 1/9/19 1/10/19 1/11/19 1/12/19 1/1/20 1/2/20 1/3/20 1/4/20 1/5/20 1/6/20 1/7/20 1/8/20 1/9/20 1/10/20 1/11/20 1/12/20 1/1/21 1/2/21 1/3/21 1/4/21 1/5/21 1/6/21 1/7/21 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