

REPORT ON BOILERS.

No. 14300

26 MAY 1931
18 DEC 1930

Date of writing Report

15.12.30

When handed in at Local Office

15.12.30

Port of

MIDDLESBROUGH

No. in Survey held at
Reg. Book.
(Supplement)

89702 on the

STOCKTON

Date, First Survey

5th July

Last Survey

15.12.30

(Number of Visits

15+3

Gross 9739

Tons

Net 6035

Built at Gothenburg By whom built M.B. Götaverken Yard No. 443 When built 1931
Gothenburg By whom made M.B. Götaverken Engine No. 1947 When made 1931
Stöcklön By whom made Riley Bros. (Boilermakers) Ltd Boiler No. 6018 When made
 Power Owners Skibsaktieselsk. Solfonn Port belonging to Staranger

TUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

of Steel Vereinigte Stahlwerke A.G. Stahl Walzwerke Thyssen (Letter for Record S)

Surface of Boilers 1415¹/₂ Is forced draught fitted yes Coal or Oil fired oil

Description of Boilers 1 SB Working Pressure 180 lbs.

Hydraulic pressure to 320 lbs. Date of test 15.12.30 No. of Certificate 6835 Can each boiler be worked separately yes

Rate in each Boiler oil fired No. and Description of safety valves to each boiler Double springloaded

Set of valves per boiler {per Rule 10.9 as fitted 14.2 Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear yes

Key boilers, state whether steam from main boilers can enter the donkey boiler No main boilers

Space between boilers or uptakes and bunkers or woodwork 650 mm Is oil fuel carried in the double bottom under boilers no

Space between shell of boiler and tank top plating Is the bottom of the boiler insulated yes

Al. dia. of boilers 11'-8" Length 11'-3" Shell plates: Material Steel Tensile strength 29/133

Are the shell plates welded or flanged no Description of riveting: circ. seams {end D.R. inner ✓

R.D.B.S (6 rivets) Diameter of rivet holes in {circ. seams 1 1/32 long, seams 1" Pitch of rivets {plate 3 1/2" T rivets ✓

Strength of circ. end seams {plate 65.1 rivets 42.3 Percentage of strength of circ. intermediate seam {plate 86.1 rivets 86.7 combined 89.4

Strength of longitudinal joint {plate 86.1 rivets 86.7 combined 89.4 Working pressure of shell by Rules 181 lbs.

butt straps {outer 3/4" inner 1/2" No. and Description of Furnaces in each Boiler 2 c.f.

Steel Tensile strength 26/30 Smallest outside diameter 3'-7 3/8"

Thin part {top ✓ bottom ✓ Thickness of plates {crown 9" bottom 7 1/2" Description of longitudinal joint weld

Working pressure of furnace by Rules 188 lbs.

Stiffening rings on furnace or c.c. bottom ✓ Working pressure of furnace by Rules 188 lbs.

Steam space: Material Steel Tensile strength 26/30 Thickness 7/8" Pitch of stays 16 1/2" x 14"

Is secured D.N.W. Working pressure by Rules 180 lbs.

Material {front Steel back ✓ Tensile strength 26/30 Thickness {front 233 lbs. back 273

Stay tubes in nests 10 1/2" Pitch across wide water spaces 13" x 7" Working pressure {front 233 lbs. back 273

Combustion chamber tops: Material Steel Tensile strength 28/32 Depth and thickness of girder

3/4" (double) Length as per Rule 2'-6" Distance apart 8 1/2" No. and pitch of stays

2'-9" Working pressure by Rules 187 lbs. Combustion chamber plates: Material Steel

Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 11/16"

to ditto: Sides 10" x 9" Back 10" x 9" Top 8 1/2" x 9" Are stays fitted with nuts or riveted over nuts

Pressure by Rules 182 lbs. Front plate at bottom: Material Steel Tensile strength 26/30

7/8" Lower back plate: Material Steel Tensile strength 26/30 Thickness 7/8"

Is at wide water space 13" x 9" Are stays fitted with nuts or riveted over nuts

Pressure 229 lbs. Main stays: Material Steel Tensile strength 28/32

Diameter {At body of stay, 2 1/2" No. of threads per inch 6 Area supported by each stay 226

Working pressure by Rules 196 lbs. Screw stays: Material Steel Tensile strength 26/30

Diameter {At turned off part, 1 3/4" No. of threads per inch 9 Area supported by each stay 87.6

Working pressure by Rules **207 lb.** Are the stays drilled at the outer ends **no.** Margin stays: Diameter { At turned off part, **1 3/8** ✓
or Over threads **1 3/8** ✓
No. of threads per inch **9.** ✓ Area supported by each stay **100.7** ✓ Working pressure by Rules **211 lb.**
Tubes: Material **iron** ✓ External diameter { Plain **2 1/2** ✓ 6 **2 1/2** ✓ 10 **2 1/2** ✓ Thickness { **5/16** ✓ No. of threads per inch **9.** ✓
Pitch of tubes **3 1/4 x 3 1/2** ✓ Working pressure by Rules **p. 230 lb. s. 235 lb.** Manhole compensation: Size of opening in
shell plate **20 x 16** ✓ Section of compensating ring **8 x 1 1/2** ✓ No. of rivets and diameter of rivet holes **48 - 1 1/2** ✓
Outer row rivet pitch at ends **8 1/4** ✓ Depth of flange if manhole flanged ✓ 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 22 inclusive for boilers been complied with **Yes.**

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - 1930/31 5.11.18 22.25 Aug 26 Oct 29.31 Nov 4
while building { During erection on board vessel - - 1931 April 13, May 9.12
Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
Total No. of visits **15 + 3.**

Is this Boiler a duplicate of a previous case **Yes.**

If so, state Vessel's name and Report No. **Pileup 5914 Tonn. Reg. 13981**

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

The materials and workmanship are good
This boiler has been built under special survey in accordance
with the Rules and Approved Plan. It is being shipped to Sweden.

This Donkey boiler has been fitted on board this vessel under my
inspection and to my satisfaction.

Survey Fee ... £ **9-8-0** When applied for, **Monthly** 19
Travelling Expenses (if any) £ : : When received, 19

P. J. McA. G. Mander.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 29 MAY 1931**

Assigned **See F.E. Rpt.**



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