

REPORT ON BOILERS.

No. 16976.

Received at London Office. 10 OCT 1949

Date of writing Report 4th Oct. 1949. When handed in at Local Office 8th Oct. 1949. Port of Gothenburg

No. in Reg. Book. Survey held at Gothenburg Date, First Survey 26th July Last Survey 22nd September 1949.

(Number of Visits. 24) Tons { Gross. 9938 Net. 5893

40015 on the Motor Tanker "P E R I C L E S"

Master --- Built at Gothenburg By whom built A-B. Götaverken Yard No. 630 When built 1949

Engines made at Gothenburg By whom made A-B. Götaverken Engine No. 2038 When made 1949

Boilers made at Stockton By whom made Stockton C.E. & Riley Boilers, Ltd. Boiler No. 6992-3 When made 1947

Nominal Horse Power 1120 Owners D/S A/S Eikland Port belonging to Oslo

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Appleby-Frodingham Steel Co., Ltd. (Letter for Record.)

Total Heating Surface of Boilers 2 x 1850 sq. feet Is forced draught fitted Yes Coal or Oil fired Oil

No. and Description of Boilers Single ended multitubular marine Working Pressure 150 lbs/in²Tested by hydraulic pressure to 275 lb/in² Date of test 17/1 & 9/2 48 No. of Certificate 7229-7231 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler --- No. and Description of safety valves to each boiler 1 double spring loaded

Area of each set of valves per boiler { per Rule. 9032.0 mm² as fitted. 11349.0 mm² Pressure to which they are adjusted 150 lb/in² Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Main boiler not fitted

Smallest distance between boilers or uptakes and bunkers or woodwork About 1 Metre from After Peak Bhd. Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating Boilers on a platform aft in ER Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers Length Shell plates: Material Tensile strength

Thickness Are the shell plates welded or flanged Description of riveting: circ. seams { end inter.

long. seams Diameter of rivet holes in { circ. seams long. seams Pitch of rivets {

Percentage of strength of circ. end seams { plate rivets Percentage of strength of circ. intermediate seam { plate rivets

Percentage of strength of longitudinal joint { plate rivets combined Working pressure of shell by Rules

Thickness of butt straps { outer inner No. and Description of Furnaces in each Boiler

Material Tensile strength Smallest outside diameter

Length of plain part { top bottom Thickness of plates { crown bottom Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

End plates in steam space: Material Tensile strength Thickness Pitch of stays

How are stays secured Working pressure by Rules

Tube plates: Material { front back Tensile strength Thickness {

Mean pitch of stay tubes in nests Pitch across wide water spaces Working pressure { front back

Girders to combustion chamber tops: Material Tensile strength Depth and thickness of girder

at centre Length as per Rule Distance apart No. and pitch of stays

in each Working pressure by Rules Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

Working pressure by Rules Front plate at bottom: Material Tensile strength

Thickness Lower back plate: Material Tensile strength Thickness

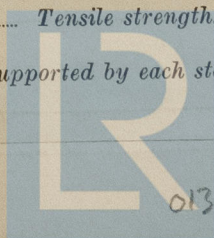
Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Working pressure Main stays: Material Tensile strength

Diameter { At body of stay or Over threads No. of threads per inch Area supported by each stay

Working pressure by Rules Screw stays: Material Tensile strength

Diameter { At turned off part or Over threads No. of threads per inch Area supported by each stay



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Working pressure by Rules..... Are the stays drilled at the outer ends..... Margin stays: Diameter { At turned off part, or Over threads.....
No. of threads per inch..... Area supported by each stay..... Working pressure by Rules.....
Tubes: Material..... External diameter { Plain..... Stay..... Thickness { No. of threads per inch.....
Pitch of tubes..... Working pressure by Rules..... Manhole compensation: Size of opening in No. in Surve
shell plate..... Section of compensating ring..... No. of rivets and diameter of rivet holes..... Reg. Book.
Outer row rivet pitch at ends..... Depth of flange if manhole flanged..... Steam Dome: Material..... on th
Tensile strength..... Thickness of shell..... Description of longitudinal joint..... Built at
Diameter of rivet holes..... Pitch of rivets..... Percentage of strength of joint { Plate..... Rivets..... Engines made a
Internal diameter..... Working pressure by Rules..... Thickness of crown..... No. and diameter of Boilers made a
stays..... Inner radius of crown..... Working pressure by Rules..... Nominal Horse
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 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 No. and Desce
Rules..... Pressure to which the safety valves are adjusted..... Hydraulic test pressure: Tested by hyd
tubes..... forgings and castings..... and after assembly in place..... Are drain cocks or Area of Fireg
valves fitted to free the superheater from water where necessary..... In case of don
Smallest dista
Smallest dista
Largest intern
Thickness
long. seams
Percentage of
Percentage of
Thickness of
Material
Length of pl
Dimensions o
End plates i
How are sta
Tube plates
Mean pitch
Girders to c
at centre
in each
Tensile stre
Pitch of stay
Front plat
Thickness
Pitch of sta
Main stays
Diameter { At
Screw stay
Diameter { A

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with..... Yes

The foregoing is a correct description,

ARTIE BOLACET GÖTAVERKEN
W. Bolacet
Manufacturer

Dates of Survey { During progress of work in shops - - - Are the approved plans of boiler and superheater forwarded herewith.....
while building { During erection on board vessel - - - 26th July - 22nd Sept., 1949 Total No. of visits 24
(If not state date of approval.)

Is this Boiler a duplicate of a previous case..... If so, state Vessel's name and Report No.....

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

These donkey boilers have been securely fitted in the vessel under our inspection and to our satisfaction and the safety valves adjusted under steam to 150 lbs. per square inch. See also Middlesbrough Reports Nos. 18415 and 18443.

An exhaust gas economiser of A-B. Götaverken's multitubular type has also been fitted in the vessel. The economiser has been built under special survey and of tested material and in accordance with the approved plan, tested hydraulically to 19.25 kgs. per sq.cm. on the 10th August, 1949, and marked for identification purposes:-

LLOYD'S TEST 19.25 KGS.
WP 10.5 KGS.
OS 10.8.49

The safety valves have been adjusted under steam to 150 lbs. per square inch.

Survey Fee £ -- : -- : -- } When applied for.....19....
Travelling Expenses (if any) £ -- : -- : -- } When received.....19....

Quintinus Van Dorst
Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 18 NOV 1949

Committee's Minute.....

Assigned..... *See F.E. Mely. spb.*



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