

REPORT ON BOILERS.

No. 16572

Received at London Office. 26 APR 1948

pt. 5a.

Date of writing Report. 21st March 1948 When handed in at Local Office. 19..... Port of. Amsterdam

No. in Survey held at. Amsterdam Date, First Survey. 29-9-47 Last Survey. 10th March 1948

g. Book. (Number of Visits. 10) Tons } Gross. 712.02
Net. ✓

on the steam tug boat ice-breaker "SWAROZYC"

aster. Built at. Amsterdam By whom built. Amst. Droogdok Mf. Yard No. 83 When built. 1948

engines made at. Amsterdam By whom made. Amsterdamsche Droogdok Mf. Engine No. 52 When made. 1948

oilers made at. Flushing By whom made. Kon. Mf. "De Schelde" Boilers No. 1113/1114 When made. 1947

ominal Horse Power. 330 Owners. POLIMAC Port belonging to. SZCZECIN

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel. (Letter for Record.....)

Total Heating Surface of Boilers. 370 m² = 2 x 185 m². Is forced draught fitted. yes ✓ Coal or Oil fired. coal ✓

No. and Description of Boilers. two multitubular Scottish boilers Working Pressure. 15 kg/cm²

tested by hydraulic pressure to. Date of test. No. of Certificate. Can each boiler be worked separately. yes ✓

Area of Firegrate in each Boiler. 4.63 m² No. and Description of safety valves to each boiler. 2 spring-loaded (176 mm) - high lift type

Area of each set of valves per boiler { per Rule. 8250 mm² 7020 mm² as fitted. 9000 mm² Pressure to which they are adjusted. 15 kg/cm² 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. 2.50 m Is oil fuel carried in the double bottom under boilers. ✓

Smallest distance between shell of boiler and tank top plating. no DB tank under boilers 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. 25/57+8

ong. 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. Working pressure of shell by Rules. combined.

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.

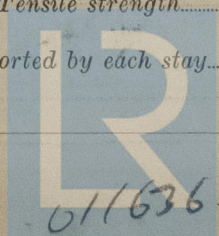
Pitch of stays at wide water space. Are stays fitted with nuts or riveted over.

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,.....
No. of threads per inch..... Area supported by each stay..... Working pressure by Rules.....
Tubes: Material..... External diameter { Plain..... Thickness { No. of threads per inch.....
Pitch of tubes..... Working pressure by Rules..... Manhole compensation: Size of opening
shell plate..... Section of compensating ring..... No. of rivets and diameter of rivet holes.....
Outer row rivet pitch at ends..... 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.....
Internal diameter..... Working pressure by Rules..... Thickness of crown..... No. and diameter of rivets.....
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 *Schmidt's* Manufacturers of { Tubes *Rohrenverband Düsseldorf (1944)*
Steel forgings.....
Steel castings *de Munck Keizer - Utrecht (1944)*
Number of elements *per boiler: 18* Material of tubes *solid drawn steel* Internal diameter and thickness of tubes *17/22 mm*
Material of headers *cast steel* Tensile strength *45 kg/mm²* Thickness *30 mm* Can the superheater be shut off at
the boiler be worked separately *yes* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *yes*
Area of each safety valve *1260 mm² (φ 40 mm)* Are the safety valves fitted with easing gear *yes* Working pressure as per
Rules *approved* Pressure to which the safety valves are adjusted *15,5 kg/cm²* Hydraulic test pressure
tubes *45 kg/cm²* forgings and castings *45 kg/cm²* and after assembly in place *45 kg/cm²* Are drain cocks
valves fitted to free the superheater from water where necessary *yes*

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with *yes*

The foregoing is a correct description.

Amsterdam, 17-2-47

Dates of Survey { During progress of work in shops - - - - - Are the approved plans of boiler and superheater forwarded herewith *17-2-47*
while building { During erection on board vessel - - - - - (If not state date of approval.)
1947: 29/9 - 7/10 - 24/10 - 4/12 - 29/12
1948: 14/1 - 2/2 - 27/2 - 4/3 - 10/3
Total No. of visits *10*

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.).....

The boilers have been erected on board and were provided with superheaters, mountings & safety valves, insulation and fire gratings etc.
The work was carried out under our supervision and in compliance with Rule requirements to our satisfaction.
On completion the boilers have been tried under steam with satisfactory results and their safety valves were adjusted.
I am of opinion that these boilers merit the approval of the Committee.

Survey Fee *on Rpt 4.* : When applied for.....19.....
Travelling Expenses (if any) £ : When received.....19.....

O. J. J. J.
Engineer/Surveyor to Lloyd's Register of Shipping.

Committee's Minute.....

Assigned.....

See F.E. mch. rpt.



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