

# REPORT ON BOILERS.

No. 2707.

Received at London Office 1 JUL 1949

Date of writing Report 28<sup>th</sup> June 49. When handed in at Local Office 30<sup>th</sup> June 49. Port of Maharr.  
No. in Survey held at Maharr. Date, First Survey 19<sup>th</sup> May Last Survey 18<sup>th</sup> June 49.  
Reg. Book 463 on the M/T "SOYA-MARIA" (Number of Visits 4) Gross 10.614.  
Net 6.214.  
Master Built at Maharr By whom built Kockmans M. V. A. B. Yard No. 305 When built 1949.  
Engines made at Maharr By whom made Kockmans M. V. A. B. Engine No. 489 When made 1949.  
Boilers made at Kockmans By whom made Kockmans M. V. A. B. Boiler No. 2145/3/4 When made 1948.  
Nominal Horse Power 1556 Owners Rederi A. B. Soga Port belonging to Stockholm.

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

Manufacturers of Steel (Letter for Record (S.))  
Total Heating Surface of Boilers Is forced draught fitted Yes Coal or Oil fired Oil.  
No. and Description of Boilers Working Pressure 170 lbs./sq. in.  
Tested by hydraulic pressure to 305 lbs./sq. in. Date of test 4-3-1948 No. of Certificate 22618  
Area of Firegrate in each Boiler No. and Description of safety valves to each boiler Two direct spring loaded.  
Area of each set of valves per boiler 16100 mm<sup>2</sup> Pressure to which they are adjusted 173 lbs./sq. in. Are they fitted with casing gear Yes.  
In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boilers.  
Smallest distance between boilers or uptakes and bunkers or woodwork The boilers placed on a platform at after end of engine room.  
Smallest distance between shell of boiler and tank top plating Is oil fuel carried in the double bottom under boilers.  
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.  
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 {front.  
back.  
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



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 No. in Bo.  
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..... 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 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  
Rules..... Pressure to which the safety valves are adjusted..... Hydraulic test pressure  
tubes..... forgings and castings..... and after assembly in place..... Are drain cocks of  
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.....

The foregoing is a correct description,

*Antti Heikkinen* Manufacturer

Dates of Survey while building { During progress of work in shops - - - ✓  
During erection on board vessel - - - }  
Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
From 19<sup>th</sup> May - 18<sup>th</sup> June, 1949 Total No. of visits 4.

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.).....

Three donkey boilers have been built under Special Survey and tested by the Surveyors to this Society as per Glasgow Report No. 72654 and have been installed onboard under my supervision and to my satisfaction.

The photostat copy of Glasgow Report No. 72654 is returned herewith.

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

*A. Borring*  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 22 JUL 1949

Assigned

*Sir F.E. Mchly. sp.*



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Foundation