

REPORT ON BOILERS.

2 JUL 1951

Received at London Office.....

Date of writing Report 29/6 1951. When handed in at Local Office 29/6 1951. Port of MALMÖ.

No. in Reg. Book. 96235 on the m/t "SVITHIOD" Survey held at MALMÖ. Date, First Survey 9/5 Last Survey 21/6 1951. (Number of Visits 4) Tons Gross 10.555 Net 7.827 Master - Built at Malmö. By whom built Kockums Mek. Verkst. A.-B. Yard No. 325 When built 1951. Engines made at Malmö. By whom made Kockums Mek. Verkstads A.-B. Engine No. 550 When made 1951. Boilers made at Wallsend-on-Tyne. By whom made Wallsend Slipway & Eng. Co. Ltd. Boiler No. 426B When made 1949. Nominal Horse Power 234 Owners Stockholms Rederi A.-B. Svea. 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 Coal or Oil fired Oil fired.

No. and Description of Boilers Working Pressure

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

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 direct spring loaded.

Area of each set of valves per boiler per Rule 6060 mm² as fitted 7696 mm² Pressure to which they are adjusted 171 lbs/sq" Are they fitted with easing gear Yes.

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler The boilers placed on a platform at after end of engine room.

Smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers.

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated.

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

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
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
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,
KOCKUMS
MEKANISKA VERKSTADS AKTIEBOLAG
Ant. Boring Manufacturer

Forw. with Newcastle-on-tyne Rpt. No. 106837.
Are the approved plans of boiler and superheater forwarded herewith.
(If not state date of approval.)
Dates of Survey while building { During progress of work in shops - - - - -
During erection on board vessel - - - - - 9/5, 24/5, 18/6, 21/6-1951. Total No. of visits 4

Is this Boiler a duplicate of a previous case..... No. 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 built under
Special Survey and tested by the Surveyors to this Society as per Newcastle-on-Tyne Report No. 106837 and have been
installed onboard under my supervision and to my satisfaction.

The photostat copy of Newcastle-on-Tyne Report No. 106837 is returned herewith.
One exhaust gas economiser, as per Report 10 enclosed herewith heated by exhaust gas from top end of main engine
cylinders, has also been installed. The economiser is fitted with a double 32 mm. safety valve which has been adjusted
to the safe working pressure.

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

A. Boring
Engineer Surveyor to Lloyd's Register of Shipping

FRI. 20 JUL 1951

Committee's Minute.....

Assigned..... *See P.E. mch. rpt.*