

REPORT ON BOILERS.

No. 8912.

15 DEC 1952

Received at London Office

Date of writing Report 11/2 1952 When handed in at Local Office 19 Port of Stockholm

No. in Reg. Book. 70436 Survey held at Norrköping Date, First Survey - Last Survey - 19 -

on the m.t. "NARVA" (Number of Visits -) Gross 1147 Tons Net 517

Master - Built at Norrköping By whom built Varv & Verkstad Yard No. 138 When built 1952

Engines made at Trollhättan By whom made Nydqvist & Holm AB Engine No. 1461 When made 1951

Boilers made at Lübeck By whom made Lübecker Maschinenbau - Gesellschaft Boiler No. 1443 When made 1951

Nominal Horse Power - Owners U.S.S.R. Port belonging to Tallin

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel - (Letter for Record -)

Total Heating Surface of Boilers - Is forced draught fitted - Coal or 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 -

Area of each set of valves per boiler - per Rule - as fitted - Pressure to which they are adjusted 175 lbs/sq. in. 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 - Is oil fuel carried in the double bottom under boilers -

Smallest distance between shell of boiler and tank top plating 3000 mm 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 - 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..... 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..... None..... 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 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.....

The foregoing is a correct description,

Manufacturer.....

Dates of Survey while building { During progress of work in shops - - - - - Are the approved plans of boiler and superheater forwarded herewith..... No (If not state date of approval.)
During erection on board vessel - - - - - See rpt. on machinery..... Total No. of visits..... -

Is this Boiler a duplicate of a previous case..... Yes..... If so, state Vessel's name and Report No. m.t. "ISHIM", "IBTICH", and "SUNGARI"

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been fitted onboard under my supervision and to my satisfaction and its safety valves have been adjusted to 175 lbs/sq.in.

MARKS ON BOILER:-

LLOYD'S No. 13 8.8.51 A.K.

Please, see Hamburg report respecting the boiler.

NOTE:-

Steam smothering with remote control is installed under the boiler.

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

M. Hind

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute.....

Assigned *See F.F. mch. rpt.*



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