

REPORT ON BOILERS.

No. 21191.

Received at London Office.

Date of writing Report 16th Dec. 1954. When handed in at Local Office 21st Dec. 1954.

Port of GOTHENBURG.

No. in Survey held at Gothenburg

Date, First Survey 20th October

Last Survey 10th December 1954.

Reg. Book.

(Number of Visits 23.)

Tons { Gross ---
Net ---

on the

Built at

By whom built

Yard No.

When built

Engines made at

By whom made

Engine No.

When made

Boilers made at

By whom made AB Lindholmens Varv

Boiler No. 3099

When made 1954

MN as per Rule

213

Owners

U.S.S.R.

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Avesta Jernverks AB, AB Domnarfvet Jernverk, Jon Marshall, AB Storfors Rörverk, AB Motala Verkstad.

Total Heating Surface of Boilers 2605 sq.ft.

Of Superheaters 1227 sq.ft.

Total for Register Book 3832

Is forced draught fitted

1227 sq.ft.

Coal or Oil fired Coal

No. and Description of Boilers One notch single ended

Working Pressure 220 lbs/in²Tested by hydraulic pressure to 380 lbs/in² Date of test 10.12.54. No. of Certificate 707

Can each boiler be worked separately

Area of Firegrate in each Boiler 73 sq.ft.

No. and Description of safety valves to each boiler One double springloaded

Area of each set of valves per boiler { per Rule 9200 mm²
as fitted 11320 mm²

Pressure to which they are adjusted

Are they fitted with easing gear

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

Is the bottom of the boiler insulated

Largest internal dia. of boilers 4569 mm.

Length 3650 mm.

Shell plates: Material SM Steel

Tensile strength 44-50 kg/mm²

If fusion welded, state name of welding Firm AB Lindholmens Varv

Have all the requirements of the Rules for Class I vessels

been complied with Yes Thickness 40.5 mm Are the shell plates welded as planned Yes

Description of riveting: circ. seams

long. seams E.W.

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

Thickness of butt straps

outer

inner

No. and Description of Furnaces in each Boiler

3 Morison corrugated

Material SM Steel

Tensile strength 41-47 kg/mm²

Smallest outside diameter 1135 mm.

Length of plain part

top 235 mm.

bottom 235 mm.

Thickness of plates 17.5 mm.

Description of longitudinal joint E.W.

Dimensions of stiffening rings on furnace or c.c. bottom

End plates in steam space: Material SM Steel

Tensile strength 41-47 kg/mm²

Thickness 28 mm.

Pitch of stays 440x520 mm.

How are stays secured EW with outside washers

Tube plates: Material

front SM Steel

back SM Steel

Tensile strength

41-47 kg/mm²

Thickness

28 mm.

Mean pitch of stay tubes in nests 280 mm.

Pitch across wide water spaces 370 mm.

Girders to combustion chamber tops: Material SM Steel

Tensile strength 44-50 kg/mm²

Depth and thickness of girder

at centre 220x40.5 mm.

Length as per Rule 824 mm.

Distance apart 205 mm.

No. and pitch of stays

in each Cont. E.W.

Combustion chamber plates: Material SM Steel

Tensile strength 41-47 kg/mm²

Thickness: Sides 19 mm.

Back 18 mm.

Top 19 mm.

Bottom 21 mm.

Pitch of stays to ditto: Sides 220x230 mm.

Back 210x210 mm.

Top 205xCont. E.W. Are stays fitted with nuts or riveted over E.W.

Front plate at bottom: Material SM Steel

Tensile strength 41-47 kg/mm²

Thickness 28 mm.

Lower back plate: Material SM Steel

Tensile strength 41-47 kg/mm²

Thickness 28 mm.

Pitch of stays at wide water space 370x210 mm.

Are stays fitted with nuts or riveted over E.W.

Main stays: Material SM Steel

Tensile strength 44-50 kg/mm²

Diameter

76 mm.

No. of threads per inch E.W.

Screw stays: Material SM Steel

Tensile strength

41-47 kg/mm²

Diameter

40 mm.

No. of threads per inch E.W.

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Are the stays drilled at the outer ends..... Margin stays: Diameter { At turned off part,.....
or
Over threads.....

No. of threads per inch.....

Tubes: Material..... External diameter { Plain..... Thickness { No. of threads per inch.....
Stay.....

Pitch of tubes..... 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..... Thickness of crown..... No. and diameter of
stays..... Inner radius of crown.....

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..... is the safety valve fitted with easing gear..... Yes

Pressure to which the safety valve is adjusted..... 15.5 kg/cm²..... 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 of the Rules been complied with.....

The foregoing is a correct description,
..... Manufacturer.

Dates of Survey while building { During progress of work in shops - - } Gothenburg report No. 21466 Are the approved plans of boiler and superheater forwarded herewith.....
(If not state date of approval.)
{ During erection on board vessel - - - } 20.9.55 - 1.12.55. Total No. of visits..... 3

Is this Boiler a duplicate of a previous case..... Yes..... If so, state Vessel's name and Report No. Please see Gothenburg report No. 21466

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been fitted onboard under my
supervision and to my satisfaction. Accumulation pressure test carried out with satisfactory results and the safety
valves of boiler and superheater adjusted under steam to 15.5 kg/cm².

Survey Fee £ No charge: { When applied for,.....19.....
Travelling Expenses (if any) £ : : { When received.....19.....

FRIDAY 16 MAR 1956

Committee's Minute.....

Assigned See Rpt. 4.....

Just E. L. S. S.

Engineer Surveyor to Lloyd's Register of Shipping.



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