

REPORT ON BOILERS.

No. 1527.

27 JAN 1937

Received at London Office

Date of writing Report 21st Jan. 1937 When handed in at Local Office 25th Jan. 1937 Port of Maharr.
Landakrona
No. in Survey held at 486 on the Single screw steamer "BELE"
Date, First Survey 23rd April, 1936 Last Survey 5th Jan. 1937
(Number of Visits 9.) Tons { Gross 1237 Net 638
Built at Landakrona By whom built Örsnudsvarvet No. 42 Yard No. 42 When built 1937.
Engines made at Landakrona By whom made Örsnudsvarvet No. 42 Engine No. 42 When made 1937.
Boilers made at Göttingen By whom made No. Lindholm - Motala Boiler No. 2578/9 When made 1937.
Nominal Horse Power 182 Owners Stockholms Rederiaktiebol. Svea Port belonging to Stockholm.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record S.)
Total Heating Surface of Boilers $2 \times 116.6 = 233.2 \text{ m}^2 = 2510 \text{ sq ft}$ Is forced draught fitted yes Coal or Oil fired Coal
No. and Description of Boilers Working Pressure
Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately yes
Area of Firegrate in each Boiler $2.8 \text{ m}^2 = 30.1 \text{ sq ft}$ No. and Description of safety valves to each boiler Two direct spring loaded.
Area of each set of valves per boiler { per Rule 4680 mm² as fitted 4926 mm² Pressure to which they are adjusted 205 lbs. Are they fitted with easing gear yes
In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No donkey boilers.
Smallest distance between boilers or uptakes and bunkers or woodwork 240 mm. Is oil fuel carried in the double bottom under boilers no
Smallest distance between shell of boiler and tank top plating 380 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 { 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
Lean 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
At 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 Stay Thickness { No. of threads per inch
Pitch of tubes Working pressure by Rules Manhole compensation: Size of opening No.
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
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 *Schmidts* Manufacturers of *Albert Hahn Rohrmalwerk - Rm Oderbr*
Number of elements *2 x 32* Material of tubes *Steel* Internal diameter and thickness of tubes *19 mm 3 mm*
Material of headers *Cast steel* Tensile strength *48.1 - 49.2 kg. mm²* Thickness *20 mm* Can the superheater be shut off from the boiler *Yes*
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 *1256.6 mm²* Are the safety valves fitted with easing gear *Yes* Working pressure as per Rules *14 kg. cm²*
Rules *14 kg. cm²* Pressure to which the safety valves are adjusted *14.3 kg. cm²* Hydraulic test pressure *50 kg. cm²*
tubes *70 kg. cm²* Forgings and castings *50 kg. cm²* and after assembly in place *50 kg. cm²* Are drain cock 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,

Dates of Survey { During progress of work in shops - - *23/4, 27/4, 18/6, 21/2, 1936* Are the approved plans of boiler and superheater forwarded herewith *20-11-36*
while building { During erection on board vessel - - *12/11, 21/12, 16/12, 1936, 5/1, 1937* (If not state date of approval.) *8-2-37*
Total No. of visits *9*

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.)

These boilers have been installed onboard under the normal conditions of survey.
See Hamburg report No. 10785!

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

For Mr. G. Westergaard & myself.
Adunden
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute
Assigned *See Memo Rpt 1527*
TUE 9 FEB 1937