

REPORT ON BOILERS.

No. 17919.

Received at London Office.

27 DEC 1950

Date of writing Report 1st Dec. 1950. When handed in at Local Office 19th Dec. 1950. Port of Gothenburg

No. in Survey held at Gothenburg Date, First Survey 22nd December 1949 Last Survey 29th November 1950

Reg. Book. 95395 on the Motor Tanker "S L I E D R E C H T" (Number of Visits 42) Gross 10560 Net 6172

Built at Gothenburg By whom built A-B. Lindholmens Varv Yard No. 1013 When built 1950

Engines made at Kristinehamn By whom made A-B. Karlstads Mek. Verkstad Engine No. 17 When made 1950

Donkey boilers made at Gothenburg By whom made A-B. Lindholmens Varv Boiler No. 2880-1 When made 1950

Machinery Numerals 357.5 Owners Phs. van Ommeren N.V. Port belonging to Rotterdam

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colvilles, Ltd. (Letter for Record S)

Total Heating Surface of Boilers 2 x 200.2 M² = 4290 square feet Of Superheaters None

Total for Register Book 4290 square feet Is forced draught fitted Yes Coal or Oil fired Oil

No. and Description of Boilers 2 Single Ended Multitubular Scotch Working Pressure 170 lb/sq. in.

Tested by hydraulic pressure to 305 lb/in². Date of test 26.7.1950 No. of Certificate 546-547 Can each boiler be worked separately Yes

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

Area of each set of valves per boiler per Rule 9350 mm² as fitted 15700 mm² Pressure to which they are adjusted 170 lb/in² Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boiler

Smallest distance between boilers or uptakes and bunkers 1300 mm. Is oil fuel carried in the double bottom under boilers ---

Smallest distance between shell of boiler and tank top plating Boilers fitted on a platform Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 3945 mm. Length 3370 mm. Shell plates: Material S.M. Steel Tensile strength 44-50 kg/mm²

Fusion welded, state name of welding Firm A-B. Lindholmens Varv, Gothenburg Have all the requirements of the Rules for Class I vessels

When complied with Yes Thickness 27.5 mm. Are the shell plates welded or flanged No Description of riveting: circ. seams Electrically welded

Long. seams Electrically welded 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 2 Morison corrugated

Material S.M. Steel Tensile strength 41-47 kg/mm² Smallest outside diameter 1178 mm.

Length of plain part top 180 mm. bottom 180 mm. Thickness of plates 14 mm. Description of longitudinal joint Electrically welded

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

End plates in steam space: Material S.M. Steel Tensile strength 41-47 kg/mm² Thickness 25 mm. Pitch of stays 540 x 430 mm.

How are stays secured Electric welded with outside washers

End plates: Material front S.M. Steel Tensile strength 41-47 kg/mm² Thickness 25 mm.Back S.M. Steel Tensile strength 41-47 kg/mm² Thickness 20 mm.

Mean pitch of stay tubes in nests 252.5 mm. Pitch across wide water spaces 360 mm.

Risers to combustion chamber tops: Material S.M. Steel Tensile strength 44-50 kg/mm² Depth and thickness of girder

Centre 210 x 25 mm. Length as per Rule 684 mm. Distance apart 215 mm. No. and pitch of stays

Each Continuous electrically welded Combustion chamber plates: Material S.M. Steel

Tensile strength 41-47 kg/mm² Thickness: Sides 17.6 mm. Back 16 mm. Top 17.6 mm. Bottom 17.6 mm.

Pitch of stays to ditto: Sides 220 x 205 mm. Back 245 x 205 mm. Top 215 x Cont. E.W. Are stays fitted with nuts or riveted over E.W. In shell R.O.

Front plate at bottom: Material S.M. Steel Tensile strength 41-47 kg/mm²Thickness 25 mm. Lower back plate: Material S.M. Steel Tensile strength 41-47 kg/mm² Thickness 25 mm.

Pitch of stays at wide water space 360 x 205 mm. Are stays fitted with nuts or riveted over Electrically welded

Main stays: Material S.M. Steel Tensile strength 44-50 kg/mm²

Diameter At body of stay 70 mm. No. of threads per inch Electrically welded

New stays: Material S.M. Steel Tensile strength 41-47 kg/mm²

Diameter At body of stay 38 mm. No. of threads per inch 9

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Are the stays drilled at the outer ends..... No ✓
Margin stays: Diameter { ~~EXHIBIT XX~~ 40 mm. ✓
No. of threads per inch..... Electrically welded ✓
Tubes: Material S.M. Steel External diameter { Plain 76 mm. ✓
Stay 76 mm. ✓ Thickness { 3.65 mm. ✓
8 mm. ✓ No. of threads per inch 9 ✓
Pitch of tubes 101 x 101 mm. ✓ Manhole compensation: Size of opening
shell plate 570 x 455 mm. ✓ Section of compensating ring 10235 mm.² No. of rivets and diameter of rivet holes Electrically welded
Outer row rivet pitch at ends --- Depth of flange if manhole flanged 90 mm. ✓ 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
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
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 ---
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 Yes ✓

The foregoing is a correct description,
AKTIEBOLAGET LINDHOLMENS VARV
Manufactured by *Sten Johnson*

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 No. 19/7
(If not state date of approval.)
22nd December, 1949 - 29th November, 1950.
Total No. of visits 42

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 in accordance with the Rules for Welded Pressure Vessels Class I and the approved plan. The workmanship is good. All welded parts of the boilers have been stress relieved in accordance with the Rules. The material fulfils the requirements of the Rules. Test sheets of the material attached. Chalmers' certificate of routine tests of welding carried out in my presence and plan showing the number and position of X-ray films on which it is indicated the category in which each film was placed by Tekniska Röntgencentralen and four representative films are attached. Macro tests have been carried out at the works of A-B. Lindholmens Varv with satisfactory results. The boilers have been marked:-

Nos. 546 - 547
LLOYD'S TEST 305 LBS.
WP 170 LBS.
SJ 26.7.50

Survey Fee ... Kr. 1090:00
Late and Sunday Fees Kr. 160:00
Travelling Expenses (if any) Kr. : 15:00

When applied for, 19th Dec. 1950.
When received --- 19.---

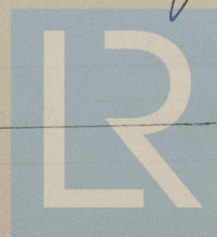
Sten Johnson
Engineer Surveyor to Lloyd's Register of Shipping

FRI. 26 JAN 1951

Committee's Minute

Assigned

Su F.E. mch. opt.



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Foundation