

REPORT ON BOILERS.

No. 23655.

Received at London Office **15 NOV 1957**

Writing Report 8/11 1957. When handed in at Local Office 11/11 1957. Port of Gothenburg.
Survey held at Gothenburg Date, First Survey 14/8 Last Survey 30/10 1957
(Number of Visits 32) Tons {Gross abt. 12300
Net.....
Gothenburg By whom built A-B. Götaverken Yard No. 728 When built ---
made at Gothenburg By whom made A-B. Götaverken Engine No. --- When made ---
made at Gothenburg By whom made A-B. Lindholmens Varv Boiler No. 3224 ✓ When made 1957.
Owners A-B. Transmarin Port belonging to Hälsingborg

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Makers of Steel Mannesmann Hüttenwerke A.G., Storfors Rörverk, A-B. Motala Verkstad.

Heating Surface of Boilers 2 x 3789 = 7578 ✓ Of Superheaters ---
Register Book 7578 sq.ft. ✓ Is forced draught fitted Yes ~~XXXXXX~~ Oil fired Yes

Description of Boilers 2 single-ended multitubular (Scotch) Working Pressure 180 lbs/sq.inch
hydraulic pressure to 320 ✓ Date of test 19/10 -57 No. of Certificate 782/783 Can each boiler be worked separately Yes

Firegrate in each Boiler --- No. and Description of safety valves to each boiler ---
each set of valves per boiler {per Rule --- as fitted --- Pressure to which they are adjusted --- Are they fitted with easing gear ---
of donkey boilers, state whether steam from main boilers can enter the donkey boiler ---

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

distance between boilers or uptakes and bunkers or woodwork --- Is the bottom of the boiler insulated ✓

internal dia. of boilers 4650 mm. ✓ Length 3880 mm. Shell plates: Material S.M. Steel Tensile strength 44 - 50 kg/mm²

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

applied with Yes Thickness 33 mm. Are the shell plates welded or flanged E.W. Description of riveting: circ. seams {end --- inter ---

Diameter of rivet holes in {circ. seams --- long. seams --- Pitch of rivets {

age of strength of circ. end seams {plate --- rivets --- Percentage of strength of circ. intermediate seam {plate --- rivets ---

age of strength of longitudinal joint {plate --- rivets --- combined ---

ss of butt straps {outer --- inner --- No. and Description of Furnaces in each Boiler 3 Morison corrugated

S.M. Steel Tensile strength 41 - 47 kg/mm² Smallest outside diameter 1129 mm.

of plain part {top abt. 230 mm. bottom abt. 230 mm. Thickness of plates 14.5 mm. Description of longitudinal joint Electrically welded

ons of stiffening rings on furnace or c.c. bottom ---

ates in steam space: Material S.M. Steel Tensile strength 41 - 47 kg/mm² Thickness 25 mm. Pitch of stays 510 x 430 mm.

stays secured Electrically welded with outside washers

ates: Material {front S.M. Steel back S.M. Steel Tensile strength {41 - 47 kg/mm² Thickness {25 mm. 21 mm.

itch of stay tubes in nests 300 mm. Pitch across wide water spaces 350 mm.

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

200 x 33 mm. Length as per Rule 862 mm. Distance apart 200 mm. 225 at side No. and pitch of stays

Cont. Electrically welded Combustion chamber plates; Material S.M. Steel

strength 41 - 47 kg/mm² ✓ Thickness: Sides 17 mm. ✓ Back 17 mm. ✓ Top 17 mm. ✓ Bottom 17 mm. ✓

stays to ditto: Sides 155x225 mm. ✓ Back 205x180 mm. ✓ Top --- Are stays fitted with nuts or riveted over

late at bottom: Material S.M. Steel Tensile strength 41 - 47 kg/mm²

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

stays at wide water space 350 mm. Are stays fitted with nuts or riveted over Electrically welded

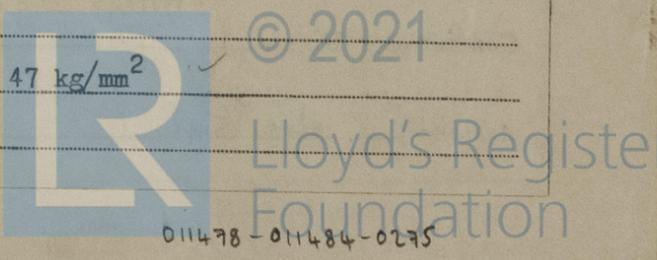
ays: Material S.M. Steel Tensile strength 44 - 50 kg/mm²

70 mm. No. of threads per inch ---

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

40 mm. No. of threads per inch 41 - 47 kg/mm²

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Are the stays drilled at the outer ends Yes Margin stays: Diameter 40
 No. of threads per inch Electrically welded
 Tubes: Material S.M. Steel External diameter { Plain 63.5 mm. Stay 63.5 Thickness { 3.65 mm. 8 mm. No. of threads per inch 9
 Pitch of tubes 87 x 90 mm. Manhole compensation: Size of shell plate 486 x 386 mm. Section of compensating ring 10890 mm² No. of rivets and diameter of rivet holes Electrically
 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 _____ stays _____ Inner radius of crown _____
 How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes _____
 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 sh _____
 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 tes _____
 tubes _____ forgings and castings _____ and after assembly in place _____ Are drop p _____
 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
 ÅNGFÄRDNINGEN
 [Signature]

Dates of Survey while building { During progress of work in shops - - 14.8. - 30.10.57. Are the approved plans of boiler and superheater forwarded herewith 8/ (If not state date of approval.)
 { During erection on board vessel - - - Total No. of visits 32.

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. A-B. Götaverken Yard No. 727
Gothenburg FE report No. 234

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These donkey boilers have been built under Survey in accordance with the Rules for Welded Pressure Vessels Class 1 and the approved plan. The workmanship All welded parts of the boiler have been stress-relieved in accordance with the Rules. The material fulfil the requirements of the Rules. The manufacturers have three boilers more on this order and the material certificates will when the order has been completed. Routine tests of welding carried out with satisfactory results. Plan showing position and number of X-ray films and on which it is indicated the category in which each film was placed by Röntgencentralen are attached.

The boilers have been marked:-

No. 782 Lloyd's test GOT. 320 lbs. WP 180 lbs. NF 19.10.57. LV No. 3223	No. 783 Lloyd's test GOT. 320 lbs. WP 180 lbs. BGJ 30.10.57. LV No. 3224.
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Survey Fee ... £r. :2.040:- } When applied for 11/11 19.57.
 Travelling Expenses (if any) £ : : } When received 19.....

[Signature]
 Engineer Surveyor to Lloyd's Register of S

Committee's Minute FRIDAY - 5 SEP 1958
 Assigned See Rpt. 1.