

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.

Size of Survey held at Gothenburg Date, First Survey 14/8 Last Survey 30/10 1957

(Number of Visits 32) Tons { Gross abt. 12300 Net

on the 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.

et hole er Rule Owners A-B. Transmarin Port belonging to Hälsingborg

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers 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 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

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

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

ms --- 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

under 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

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

ry. ntes 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

lates: 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

c. 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

ss 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

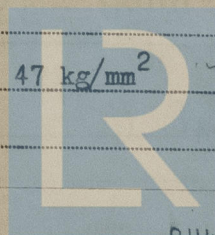
f Shays: Material S.M. Steel Tensile strength 44 - 50 kg/mm²

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

stays: 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. Thickness { 3.65 mm. No. of threads per inch 9
Stay 63.5 8 mm.
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

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 8/10/57
(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
ments 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.....

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

Engineer Surveyor to Lloyd's Register of Shipping
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