

REPORT ON BOILERS.

No. 14111

Received at London Office

Date of writing Report 31st Dec. 1944 When handed in at Local Office 8th Jan. 45 Port of Gothenburg.

No. in Survey held at Gothenburg. Date, First Survey 8th August Last Survey 9th December 1944.

Reg. Book 92569 on the m.s. "WILHELMINA" (Number of Visits 7) Tons {Gross 2076 Net 1040

Built at Gothenburg By whom built Eriksbergs Mek. Verkatads A-B. Yard No. 327 When built 1944.

Engines made at Gothenburg By whom made Eriksbergs Mek. Verkst. A-B. Engine No. 354 When made 1944.

Boilers made at Gothenburg By whom made Eriksbergs Mek. Verkatads A-B. Boiler No. 724 When made 1944.

Owners Rederi A-B. Fredrika Port belonging to Stockholm.

VERTICAL DONKEY BOILER.

Made at Gothenburg By whom made Eriksbergs M.V. A-B. Boiler No. 724 When made 1944 Where fixed Engine room.

Manufacturers of Steel Degerfors Järnverks A-B. Degerfors, Sweden.

Total Heating Surface of Boiler 15 m² (161 sq. feet) Is forced draught fitted Yes Coal or Oil fired OilNo. and Description of Boilers One vertical multitubular Working pressure 7 kg/cm² (100 lb/sq. in.)Tested by hydraulic pressure to 14 kg/cm² Date of test 12th September 1944 No. of Certificate 425

Area of Firegrate in each Boiler --- No. and Description of safety valves to each boiler One double springloaded

Diam. of each set of valves per boiler {per rule 1 1/2" as fitted 2" Pressure to which they are adjusted 7 kg/cm² Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey boiler No main boiler Smallest distance between boiler or uptake and bunkers

or woodwork --- Is oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating

920 mm. Is the base of the boiler insulated Yes Largest internal dia. of boiler 1200 mm. Height 3070 mm.

Shell plates: Material S.M. Steel Tensile strength 44-55 kg/mm² Thickness 10 mm.

Are the shell plates welded or flanged No Description of riveting: circ. seams {end Single lap inter. --- long. seams Double lap

Dia. of rivet holes in {circ. seams 20 mm. Pitch of rivets {50 mm. Percentage of strength of circ. seams {plate 60.0 of Longitudinal joint {plate 69.7 rivets 78.0 combined ---

Working pressure of shell by rules 10.6 kg/cm² Thickness of butt straps {outer --- inner ---

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished part spherical Material S.M. Steel

Tensile strength 41-47 kg/mm² Thickness 10 mm. Radius 960 mm. Working pressure by rules 8.4 kg/cm²Description of Furnace: Plain, spherical, or dished crown Dished Material S.M. Steel Tensile strength 41-47 kg/mm²Top = 14 mm. Thickness Side = 15 mm. External diameter {top 950 mm. Length as per rule 500 mm. Working pressure by rules 10.6 kg/cm²

Pitch of support stays circumferentially --- and vertically --- Are stays fitted with nuts or riveted over ---

Diameter of stays over thread --- Radius of spherical or dished furnace crown 774 mm. Working pressure by rule 10.6 kg/cm²Thickness of Ogee Ring 15 mm. Diameter as per rule {D 1200 mm. Working pressure by rule 11.35 kg/cm²Combustion Chamber: Material S.M. Steel Tensile strength 41-47 kg/mm² Thickness of top plate 14 mm.

Radius if dished Flat Covered by "stand out" Working pressure by rule 2 welded Thickness of back plate 14 mm. Diameter if circular 920 mm.

Length as per rule --- Pitch of stays 200x180 mm. Are stays fitted with nuts or riveted over Riveted over

Diameter of stays over thread 1 1/4" Working pressure of back plate by rules 8.65 kg/cm²Tube Plates: Material {front S.M. Steel Tensile strength {41-47 kg/mm² Thickness {14 mm. Mean pitch of stay tubes in nests 190 mm.back S.M. Steel Tensile strength {41-47 kg/mm² Thickness {14 mm. Mean pitch of stay tubes in nests 190 mm.

If comprising shell, Dia. as per rule {front --- Pitch in outer vertical rows {--- Dia. of tube holes FRONT {stay --- BACK {stay ---

back --- Pitch in outer vertical rows {--- Dia. of tube holes FRONT {stay --- BACK {stay ---

Is each alternate tube in outer vertical rows a stay tube Yes Working pressure by rules {front 13.3 kg/cm²Girders to combustion chamber tops: Material S.M. Steel Tensile strength 44-50 kg/mm²

Depth and thickness of girder at centre 80 x 12 mm. Length as per rule 320 mm.

Distance apart 300 mm. No. and pitch of stays in each E.W. Working pressure by rule ---

008753-008758-0232

Crown stays: Material... **None** 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... **S.M. Steel** Tensile strength... **41-47 kg/mm²** Diameter { at turned off part, ---
or ---
over threads... **1.1/4"** No. of threads per inch... **7**

Area supported by each stay... **200 x 180 mm** Working pressure by rules... **9.25 kg/cm²** Are the stays drilled at the outer ends... **No**

Tubes: Material... **S.M. Steel** External diameter { plain... **2 1/2" Ø**
stay... **2 1/2" Ø** Thickness { **3 mm**
8 mm

No. of threads per inch... **9** Pitch of tubes... **95 mm** Working pressure by rules... **9 kg/cm²**

Manhole Compensation: Size of opening in shell plate... **380 x 520 mm** Section of compensating ring... **220 x 12 mm** No. of rivets and diameter
of rivet holes... **E.W.** Outer row rivet pitch at ends... --- Depth of flange if manhole flanged... **100 mm**

Uptake: External diameter... --- Thickness of uptake plate... ---

Cross Tubes: No. --- External diameters { --- Thickness of plates... ---

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with... **Yes**

The foregoing is a correct description,

ERIKSBERGS RIKS VERKSTÄDS AB
GÖTEBORO
Åke Rindh Manufacturer

Dates of Survey { During progress of work in shops - - } **8th August - 12th September 1944** Is the approved plan of boiler forwarded herewith... **No. Got. 14/1**
(If not state date of approval.)

while building { During erection on board vessel - - } **8th November - 9th December 1944** Total No. of visits... **7**

Is this Boiler a duplicate of a previous case... **Yes** If so, state Vessel's name and Report No. **m.s. "Fylgia", Rpt. No. 13796**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **This donkey boiler has been built under special survey and all the requirements of the Rules have been complied with.**

The workmanship is good.

The material as per test sheets attached.

The boiler is marked:

No. 425
LLOYDS TEST 14 KGS.
WP 7 KG
SA 12.9.44

Survey Fee Kr. **80:00** { When applied for, **29/12** 1944..
Travelling Expenses (if any) Kr. --- { When received, **29/12** 1944..

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



© 2021

Lloyd's Register
Foundation