

REPORT ON BOILERS.

No. 5325

Received at London Office

Date of writing Report 27th Aug. 41 When handed in at Local Office 19 Port of Stockholm

No. in Reg. Book Survey held at Vorköping & Stockholm Date, First Survey 11.9.40 Last Survey 21.8.41

on the steel ss. motor-tanker "Glan" (Number of Visits 5) Tons Gross 640
Net 362

Built at Stockholm By whom built S/B Skensbergs Varv Yard No. 177 When built 1941

Engines made at Stockholm By whom made S/B Atlas-Diesel Engine No. 85889 When made 1941

Boilers made at ✓ By whom made ✓ Boiler No. ✓ When made ✓

Owners Rederi S/B Transocean Port belonging to Gothenburg

VERTICAL DONKEY BOILER.

Made at Vorköping By whom made V. Söderströms & S. & S. S/B Boiler No. 1384 When made 1940 Where fixed ✓

Manufacturers of Steel Pösta Jernverks S/B

Total Heating Surface of Boiler 10 m² Is forced draught fitted ✓ Coal or Oil fired Oil fired

No. and Description of Boilers One Rapid Donkey Boiler Working pressure 8 kgs/cm²

Tested by hydraulic pressure to 16 kgs/cm² Date of test 11.9.40 No. of Certificate 8162

Area of Firegrate in each Boiler 0.5 m² No. and Description of safety valves to each boiler 2 spring loaded safety valves

Area of each set of valves per boiler per rule 22.68 cm² Pressure to which they are adjusted 8 kgs/cm² Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey 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 650 mm.

Is the base of the boiler insulated Yes Largest internal dia. of boiler 850 mm. Height 8485 mm.

Shell plates: Material S. M. Steel Tensile strength 46.7 kgs/mm² Thickness 10 mm.

Are the shell plates welded or flanged ✓ Description of riveting: circ. seams single long. seams double

Dia. of rivet holes in circ. seams 20 mm. Pitch of rivets 48 mm. Percentage of strength of circ. seams plate 58.4 of Longitudinal joint plate 70.0
long. seams 20 mm. 67 mm. rivets 50.9 combined 79.9

Working pressure of shell by rules 15.9 kgs/cm² Thickness of butt straps outer 70.0
inner 79.9

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

Tensile strength 41.9 kgs/mm² Thickness 13 mm. Radius 680 mm. Working pressure by rules 16 kgs/cm²

Description of Furnace: Plain, spherical, or dished crown Material S. M. Steel Tensile strength 38.9 kgs/mm²

Thickness 14.5 mm. External radius top 754.5 mm. Length as per rule ✓ Working pressure by rules 11.2 kgs/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 ✓ Working pressure by rule ✓

Thickness of Ogee Ring 10 mm. Diameter as per rule 810 mm. Working pressure by rule 81.1 kg./cm²
760 mm.

Combustion Chamber: Material S. M. Steel Tensile strength 38.8 kgs/mm² Thickness of top plate 13 mm.

Radius if dished not dished Working pressure by rule ✓ Thickness of back plate 10 mm. Radius if circular 330 to 380 mm.

Length as per rule ✓ Pitch of stays 265 x 140 mm. Are stays fitted with nuts or riveted over E.W. & riveted over.

Diameter of stays over thread 32 mm. Working pressure of back plate by rules 8.5 kgs/cm²

Tube Plates: Material S. M. Steel Tensile strength 41.9 kgs/mm² Thickness 13 mm. Mean pitch of stay tubes in nests 205 mm.

If comprising shell, Dia. as per rule front 53 mm. BACK 49 mm.
back 52 mm. 51 mm.

Is each alternate tube in outer vertical rows a stay tube ✓ Working pressure by rules front 9.6 kgs/cm²
back 8.5 kgs/cm²

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 in each ✓ Working pressure by rule ✓

*Tie bricks fitted.

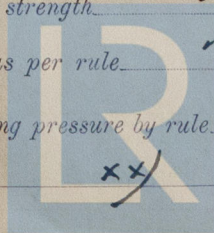
If not, state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

[Made in England.]

[Unl. 37. - Copyable Ink.]

W170-0180



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Crown 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 *S.M. Steel* Tensile strength *41.5 kgs/mm²* Diameter ☒ at turned off part or over threads *32 mm* No. of threads per inch *9*

Area supported by each stay *265 x 140 mm* Working pressure by rules *9.8 kgs/cm²* Are the stays drilled at the outer ends ☒

Tubes: Material *S.M. Steel* External diameter ☒ plain *51 mm* Thickness ☒ *3 mm* stay *51 mm* *4.75 mm*

No. of threads per inch *9* Pitch of tubes *90 x 80 mm* Working pressure by rules *11 kgs/cm²*

Manhole Compensation: Size of opening in shell plate *230 x 300 mm* Section of compensating ring *500 x 410 x 12 mm* No. of rivets and diameter of rivet holes *E.W.* Outer row rivet pitch at ends *E.W.* Depth of flange if manhole flanged ☒

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,
W. Söderströms Gjuteri & Mek. Verkstads A.B.
Luiser E. Kristensson Manufacturer.

Dates of Survey ☒ During progress of work in shops - *28, 4, 40* Is the approved plan of boiler forwarded herewith *6.5.40.*
 while building ☒ During erection on board vessel - *24, 12, 21, 41* (If not state date of approval.)
 Total No. of visits *5*

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.)

This boiler has been built under Special Survey and all the requirements of the Rules have been complied with. The workmanship is good and the material fulfils the requirements of the Rules. The dimensions are as specified and in accordance with the Rules and approved plan.

The boiler has been fitted on board under my supervision and to my satisfaction.

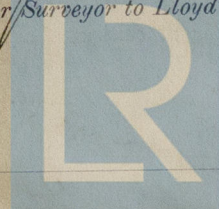
This boiler is, in my opinion, eligible to be classed in the Register Book and to have the notation of D.B.S. 7, 41.

Survey Fee ... *Kr. 80.-* : } When applied for, *28.8.19* *41*
 Travelling Expenses (if any) *Kr. 46.75* : } When received, *19*

R. F. Andersson
 Engineer, Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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