

REPORT ON BOILERS.

No. 5325

Received at London Office - 7 OCT 1941

Date of writing Report 27th Aug 41. When handed in at Local Office 1941
 No. in Reg. Book 08
 Survey held at Värking & Stockholm
 on the steel st. motor-tanker "Glan"
 Built at Stockholm By whom built A/B Skensbergs Varr
 Engines made at Stockholm By whom made A/B Mas-Biesel
 Boilers made at By whom made
 Owners Rederi A/B Transocean Port belonging to Gøthenburg

VERTICAL DONKEY BOILER.

Made at Värking By whom made V. Söderströms & Söner A/B Boiler No. 1384 When made 1940 Where fixed
 Manufacturers of Steel Rosta Jernverks A/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 = 114 lb
 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 6.74 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.
 Is oil fuel carried in the double bottom under boiler yes
 Smallest distance between boiler or uptake and bunkers
 Is the base of the boiler insulated yes
 Largest internal dia. of boiler 850 mm. Height 2485 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 R lap
 Dia. of rivet holes in circ. seams 20 mm. Pitch of rivets 46 mm. Percentage of strength of circ. seams 58.4
 Dia. of rivet holes in long. seams 20 mm. Pitch of rivets 67 mm. Percentage of strength of long. seams 50.2
 Working pressure of shell by rules 15.9 kgs/cm² Thickness of butt straps 10 mm.
 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: Place spherical, or dished crown dished crown Material S.M. Steel
 Thickness 14.5 mm. Radius 754.5 mm. Working pressure by rules 11.2 kgs/cm²
 Pitch of support stays circumferential and horizontal Are stays fitted with nuts or riveted over
 Diameter of stays over thread Radius of spherical or dished furnace crown Working pressure by rules
 Thickness of outer ring 10 mm. Diameter as per rule 810 mm. Working pressure by rule 21.1 kgs/cm²
 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 wall 10 mm. radius 330 to 380 mm.
 Length as per rule Pitch of stays 265 x 140 mm. Are stays fitted with nuts or riveted over E.N. riveted over
 Diameter of stays over thread 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.
 Diameter of tube holes in front 53 mm. Diameter of tube holes in back 49 mm.
 Working pressure by rules 9.6 kgs/cm²
 Tensile strength
 Length as per rule

Fire bricks fitted



© 2019

Lloyd's Register Foundation

W170-0173 (1/2)

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. H. 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/mm²* Are the stays drilled at the outer ends *✓*

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

No. of threads per inch *9* Pitch of tubes *90 x 80 mm. 80 x 80 mm.* Working pressure by rules *11 kgs/mm²*

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. Söderström Gjuteri & Mek. Verkstads A.-B.

Manufacturer.

Dates of Survey while building *During progress of work in shops - 28, 4, 40. 8, 9, 40. During erection on board vessel - 24, 12, 21, 41. 3, 6, 7, 41.*

Is the approved plan of boiler forwarded herewith (If not state date of approval) *6.5.40.*

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, etc.)

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 *28.4.41*

Travelling Expenses (if any) *Kr. 46.75* When received *16*

J. P. Andersson
Engineer in Charge to Lloyd's Register of Shipping

Committee's Minute assigned

TUE. 2 DEC 1941

See Min. 26 5332



© 2019

Lloyd's Register Foundation

N170-0173 (2/2)