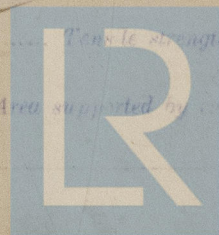


- 2 JUL 1943

Date of writing Report 15th June, 43. When handed in at Local Office 17th June, 43. Port of Maharrö.
 No. in Reg. Book. Survey held at Maharrö Date, First Survey 16th June, 1942 Last Survey 11th May, 43.
 Name of the Single Screw Motorship "GLIMMINGEHUS" Number of Visits 28. Tons (Gross 8548 Net 5132)
 Master J. Built at Maharrö By whom built Kockmans m.v.a. Yard No. 248 When built 1943.
 Engines made at Maharrö By whom made Kockmans m.v.a. Engine No. 295 When made 1943.
 D-Boilers made at Maharrö By whom made Kockmans m.v.a. Boiler No. 993/94 When made 1943.
 Nominal Horse Power 1361 Owners Tralleborgs Ängfartygs Nya A. B. Port belonging to Tralleborg.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Messrs. Mannesmannröhren-Werke A. B. Duisburg-Essen (Letter for Record S)
 Total Heating Surface of Boilers $2 \times 131 = 262 \text{ m}^2 = 2820 \text{ ft}^2$ Is forced draught fitted Yes Coal or Oil fired Oil.
 No. and Description of Boilers Two S.B. Working Pressure 12 kg. $\text{cm}^2 = 171 \text{ lb.}$
 Tested by hydraulic pressure to 306 lb./ cm^2 Date of test 29.10.1942 No. of Certificate 120 & 121 Can each boiler be worked separately Yes.
 Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2. Direct spring loaded.
 Area of each set of valves per boiler {per Rule 6300 mm^2 6120 Pressure to which they are adjusted 175 lb./ cm^2 Are they fitted with easing gear. Yes.
 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler. The boilers placed on a platform at after end of eng. room.
 Smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers.
 Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated. Yes.
 Largest internal dia. of boilers 3400 mm. Length extra 3600 mm. Shell plates: Material Steel. Tensile strength 47.6-49.7 kg. mm^2 .
 Thickness 22.5 mm. Are the shell plates welded or flanged No. Description of riveting: circ. seams {end D.R. 83 mm. inter 171.5 mm. long seams T.R. Sbl. S. Diameter of rivet holes in {circ. seams 26 mm. Pitch of rivets {inter 83 mm. long seams 23.5 mm. Percentage of strength of circ. end seams {plate 86.3% rivets 43.0% Percentage of strength of circ. intermediate seam {plate 86.3% rivets 79.6% combined 88.5% Working pressure of shell by Rules 12.1 kg. cm^2 .
 Percentage of strength of longitudinal joint {plate 86.3% rivets 79.6% combined 88.5%
 Thickness of built straps {outer 17 mm. No. and Description of Furnaces in each Boiler Two corrugated (Morrison)
 Material Steel Tensile strength 42.7-44.2 kg. mm^2 . Smallest outside diameter 1076 mm.
 Length of plain part {top 13 mm. Description of longitudinal joint Welded.
 Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 12.2 kg. cm^2 .
 End plates in steam space: Material Steel Tensile strength 42.9-44.3 kg. mm^2 . Thickness 22 mm. Pitch of stays 350 x 406 mm.
 How are stays secured Sbl. mts. washers & threaded through plate Working pressure by Rules 13 kg. cm^2 .
 Tube plates: Material {front Steel. Tensile strength 42.9-44.1 kg. mm^2 . Thickness 22 mm. back " 43.5-44.3 " 21 mm.
 Mean pitch of stay tubes in nests 240 mm. 22 Pitch across wide water spaces 330 mm. Working pressure {front 16.6 kg. cm^2 . back 19.4 " Depth and thickness of girder
 Girders to combustion chamber tops: Material Steel Tensile strength 42.2-45.0 kg. mm^2 . Distance apart 210 mm. No. and pitch of stays
 at centre 2 (180 x 20) mm. Length as per Rule 735 mm. Working pressure by Rules 13.2 kg. cm^2 . Combustion chamber plates: Material Steel.
 in each 2 - 228 mm. Tensile strength 43.1-45.0 kg. mm^2 . Thickness: Sides 18 mm. Back 18 mm. Top 18 mm. Bottom 18 mm.
 Pitch of stays to ditto: Sides 228 x 180-190 mm. Back 216 x 203 mm. Top 228 x 210 mm. Are stays fitted with nuts or riveted over Both.
 Working pressure by Rules 12 kg. cm^2 . Front plate at bottom: Material Steel. Tensile strength 42.9-44.1 kg. mm^2 . Thickness 22 mm.
 Thickness 22 mm. Lower back plate: Material Steel. Tensile strength 43.0-44.3 kg. mm^2 . Thickness 22 mm.
 Pitch of stays at wide water space 216 x 330 mm. Are stays fitted with nuts or riveted over Nuts.
 Working Pressure 17.8 kg. cm^2 . Main stays: Material Steel. Tensile strength 44-50 kg. mm^2 .
 Diameter {As body of stay. 2 3/8" & 3" under span 6 Area supported by each stay 142100
 over threads 2 3/8" & 3" No. of threads per inch 6 Tensile strength 41-47 kg. mm^2 .
 Working pressure by Rules 12.6 kg. cm^2 . Screw stays: Material Steel. Tensile strength 43848 mm^2 .
 Diameter {As body of stay. 1 1/2" & 1 5/8" No. of threads per inch 9 Area supported by each stay



Lloyd's Register Foundation

Working pressure by Rules 12.9 kg. cm^2 No. 57560 Margin stays Diameter $1 1/2", 1 7/8" \text{ and } 1 3/4"$
 No. of threads per inch 9 Area supported by each stay 3.25 mm^2 Working pressure by Rules 12 kg. cm^2
 Tubes: Material Steel External diameter $2 1/2"$ Thickness 8 No. of threads per inch 9
 Pitch of tubes $89 \times 92 \text{ mm.}$ Working pressure by Rules 12.5 kg. cm^2 Hole compensation: Size of opening in shell plate $400 \times 500 \text{ mm.}$ Section of compensating ring 14040 mm^2 No. of rivets and diameter of rivet holes $44 - 26 \text{ mm.}$
 Outer and net pitch at ends 190 mm. Depth of flange if manhole flanged 82 mm. Steam Dome: Material
 Tensile strength Thickness of shell Description of longitudinal joint
 Diameter of rivet holes Pitch of rivets Percentage of strength of joint
 Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays
 Inner radius of crown Working pressure by Rules
 Pipe connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch 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 shut off and 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 Working pressure as per Rules
 Pressure to which the safety valves are adjusted Hydraulic test pressure
 tubes forgings and castings and after assembly in place Are drain cocks or 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

The foregoing is a correct description.

Kockums mek. Verkestad A.B.
 signed *E. Lundquist* No. 2155

Date of Survey 19/10, 21/10, 24/10, 26/10, 29/10, 31/10, 3/11, 5/11, 7/11, 9/11, 11/11, 13/11, 15/11, 17/11, 19/11, 21/11, 23/11, 25/11, 27/11, 29/11, 1/12, 3/12, 5/12, 7/12, 9/12, 11/12, 13/12, 15/12, 17/12, 19/12, 21/12, 23/12, 25/12, 27/12, 29/12, 31/12, 2/1, 4/1, 6/1, 8/1, 10/1, 12/1, 14/1, 16/1, 18/1, 20/1, 22/1, 24/1, 26/1, 28/1, 30/1, 31/1, 1/2, 3/2, 5/2, 7/2, 9/2, 11/2, 13/2, 15/2, 17/2, 19/2, 21/2, 23/2, 25/2, 27/2, 29/2, 31/2, 1/3, 3/3, 5/3, 7/3, 9/3, 11/3, 13/3, 15/3, 17/3, 19/3, 21/3, 23/3, 25/3, 27/3, 29/3, 31/3, 1/4, 3/4, 5/4, 7/4, 9/4, 11/4, 13/4, 15/4, 17/4, 19/4, 21/4, 23/4, 25/4, 27/4, 29/4, 31/4, 1/5, 3/5, 5/5, 7/5, 9/5, 11/5, 13/5, 15/5, 17/5, 19/5, 21/5, 23/5, 25/5, 27/5, 29/5, 31/5, 1/6, 3/6, 5/6, 7/6, 9/6, 11/6, 13/6, 15/6, 17/6, 19/6, 21/6, 23/6, 25/6, 27/6, 29/6, 31/6, 1/7, 3/7, 5/7, 7/7, 9/7, 11/7, 13/7, 15/7, 17/7, 19/7, 21/7, 23/7, 25/7, 27/7, 29/7, 31/7, 1/8, 3/8, 5/8, 7/8, 9/8, 11/8, 13/8, 15/8, 17/8, 19/8, 21/8, 23/8, 25/8, 27/8, 29/8, 31/8, 1/9, 3/9, 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