

REPORT ON BOILERS.

No. 12712

Received at London Office

17 NOV 1939

Date of writing Report 23/10/1939 When handed in at Local Office 7.11.1939

Port of TRIESTE

No. in Survey held at TRIESTE
Reg. Book 23390 on the

Date, First Survey 23/3/1939

Last Survey 11/10/1939

(Number of Visits 17)

Gross 50M
Tons Net 2977.

Built at TRIESTE By whom built CANT. RIUNITI DELL'ADRIATICO Yard No. 1926 When built 1939
Engines made at TRIESTE By whom made CANT. RIUNITI DELL'ADRIATICO Engine No. 5287 When made 1939
Boilers made at TRIESTE By whom made CANT. RIUNITI DELL'ADRIATICO. Boiler No. 1828 When made 1939
Owners THE DE LA RAMA STEAMSHIP & CO. INC. Port belonging to IL DIOLO-P.I.

VERTICAL DONKEY BOILER.

Made at TRIESTE By whom made CANT. RIUNITI DELL'ADRIATICO Boiler No. 1828 When made 1939 Where fixed IN ENG. R.
Manufacturers of Steel JOSEPH ADAMSON & CO LTD HYDE
WITKOWITZER BERGHAU & EIS. SEIN. ACCIAIERIE LOMBARDE FALK.

Total Heating Surface of Boiler $16\text{m}^2 + 60\text{m}^2 = 76\text{m}^2$ TOTAL Is forced draught fitted NO Coal or Oil fired OIL FIRED
E.A.H. 9 A.S.

No. and Description of Boilers ONE, CLARKSON PATENT COMPOSITE BOILER TYPE B 109 Working pressure 7Kg/cm^2

Tested by hydraulic pressure to 14Kg/cm^2 Date of test 16/8/1939 No. of Certificate 324.

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 IMPROVED DIRECT SPRING LOADED.

Area of each set of valves per boiler per rule AS APPROVED
as fitted 3180.86m^2 Pressure to which they are adjusted 7Kg/cm^2 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 Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated YES Largest internal dia. of boiler 1800mm Height 3740mm .

Shell plates: Material SIEMENS MARTIN STEEL Tensile strength $44-55\text{Kg/mm}^2$ Thickness 19mm .

Are the shell plates welded or flanged NO Description of riveting: circ. seams end DOUB. 215-215.
inter. long. seams TRIP. O.A.S.

Dia. of rivet holes in circ. seams 31mm Pitch of rivets 69mm Percentage of strength of circ. seams plate 66%
long. seams 26mm rivets 74% of Longitudinal joint plate 74%
combined 130%

Working pressure of shell by rules 16.4Kg/cm^2 Thickness of butt straps outer 16mm .
inner 16mm .

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat PARTIAL SPHERICAL Material SIEMENS MARTIN STEEL.

Tensile strength $41-47\text{Kg/mm}^2$ Thickness 20mm Radius 1645mm Working pressure by rules 10.6Kg/cm^2

Description of Furnace: Plain, spherical, or dished crown DISHED CROWN Material S.M.S. Tensile strength $41-47\text{Kg/mm}^2$

Thickness 22mm External diameter top Length as per rule Working pressure by rules

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 1645mm Working pressure by rule 7.3Kg/cm^2

Thickness of Ogee Ring Diameter as per rule Working pressure by rule

Combustion Chamber: Material S.M.S. Tensile strength $41-47\text{Kg/cm}^2$ Thickness of top plate 16mm .

Radius if dished 915mm Working pressure by rule 12.3Kg/cm^2 Thickness of back plate Diameter if circular 915mm

HEIGHT as per rule 1300mm Pitch of stays Are stays fitted with nuts or riveted over

Diameter of stays over thread Working pressure of back plate by rules 13.2Kg/cm^2

Tube Plates: Material front S.M.S. Tensile strength $41-47\text{Kg/mm}^2$ Thickness 20mm Mean pitch of tubes in nests TIMBLE $110 \times 110\text{mm}$.

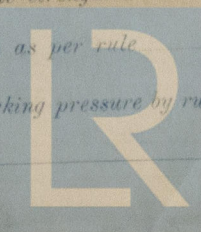
If comprising shell, Dia. as per rule front Pitch in outer vertical rows Dia. of tube holes FRONT stay BACK stay
back plain

Is each alternate tube in outer vertical rows a stay tube Working pressure by rules front back

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



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 Reg. Book. **73390**
 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 _____ Tensile strength _____ Diameter { at turned off part, _____
 or over threads _____ No. of threads per inch _____
 Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____
 Tubes: Material **TIMBLE** **S. M. S.** External diameter **IN SHELL 63" m. φ.** Thickness **Nº 9.5.**
IN E. E. 40" m. φ. Thickness **Nº 9.5.**
 No. of threads per inch _____ Pitch of tubes **IN SHELL - 140 x 95" m.** Working pressure by rules **16 kg/cm².**
IN E. E. - 110 x 110" m.
 Manhole Compensation: Size of opening in shell plate **400 x 300" m.** Section of compensating ring _____ No. of rivets and diameter _____
 of rivet holes _____ Outer row rivet pitch at ends _____ Depth of flange if manhole flanged **92" m.**
 Uptake: External diameter **582" m.** Thickness of uptake plate **16" m.**
 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.

Manufacturer wheel Shaft

Dates of Survey while building	During progress of work in shops - -	1939 Mar 23, 30, Apr 19, May 24, June 22, Jul 11, 12, 17. Aug 7, 16, 18, 24, 31, Sept 20	Is the approved plan of boiler forwarded herewith (If not state date of approval.)	7/12/1939
	During erection on board vessel - -	1939 July 17, Oct 9, 11.	Total No. of visits	seventeen

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been* no liners are fit

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This Bailer has been constructed under special Survey, approved plans and Secretaries letters, the material and the workmanship are good.*

The Boiler mountings has been examined and tested as per Rule. The D. Boiler has been satisfactorily fitted on board and securely fastened. The safety valves were adjusted to blow at $7\frac{1}{2}$ (100 lbs.).—

The Daubig B. identification Mark are follows:

N^o 324
LLOYD TEST
14 kg/cm²
W.P. 7 kg/cm²
MB-16.8.39.

Survey Fee	£ 500	When applied for, 30/10/19	39
Travelling Expenses (if any) £	:	When received, 28/11/19	39 RST

FRI. 24 NOV 1939

Committee's Minute

Assigned

Dec. 7th. 76. 12712

Engineer Surveyor to Lloyd's Register of Shipping **Air Pumps, N**

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