

REPORT ON BOILERS.

No. 1547

Received at London Office 11 Sept 1926

Writing Report 14th Aug. 1926 When handed in at Local Office 14th Aug. 1926 Port of NAGASAKI.

Survey held at NAGASAKI. Date, First Survey 6th April, 1925 Last Survey 3rd August 1926

on the Steel Twin Screw Motor Vessel MONTEVIDEO MARU. (Number of Visits 26.) Gross 7267 Tons Net 4387

Nagasaki. By whom built Mitsubishi Zosen Kaisha, Ltd., Yard No. 412, When built 1926.

made at Nagasaki. By whom made Mitsubishi Zosen Kaisha, Ltd., Engine No. 412 When made 1926.

made at Nagasaki. By whom made Mitsubishi Zosen Kaisha, Ltd., Boiler No. 412 When made 1926

Osaka Shosen Kabushiki Kaisha. Port belonging to Osaka.

Vertical DONKEY BOILER.

Nagasaki By whom made Mitsubishi Zosen Kaisha Boiler No. 412 When made 1926 Fore end of Engine Casing Uppermost Dk.

Constructors of Steel Imperial Steel Works., Yawata. Japan.

Heating Surface of Boiler 300.3 sq.ft. Is forced draught fitted No Coal or Oil fired Oil

Description of Boilers One. Vertical Multitubular. Working pressure 100 lbs

Tested by hydraulic pressure to 200 lbs per sq.in. Date of test 21st April, 1926. No. of Certificate 127.

Firegrate in each Boiler Oil fired No. and Description of safety valves to each boiler 2 spring loaded

each set of valves per boiler { per rule 3.5344 sq.in. Pressure to which they are adjusted 100 lbs Are they fitted with easing gear Yes
as fitted 6.2832 sq.in.

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

Work 6'-0" Is oil fuel carried in the double bottom under boiler No Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Yes Largest internal dia. of boiler 5'-6" Height 13'-6"

Material Mild Steel Tensile strength 28.6 Thickness 1/2"

Furnace mouth, flue tube Sing. riv. Double riveted
shell plates welded or flanged & bottom plate Description of riveting: circ. seams end " " long. seams
flanged and welded

rivet holes in { circ. seams 15/16" Pitch of rivets 2 1/4" Percentage of strength of circ. seams { plate 58.4% of Longitudinal joint { plate 67.5%
long. seams 15/16" rivets 50.5% rivets 78.7% combined

pressure of shell by rules 138 lbs per sq.in.

Thickness of butt straps { outer / inner /

Shape: Whether complete hemisphere, dished partial spherical, or flat Dished Partial Spherical Material Mild Steel

Strength 28.8 tons Thickness 5/8" Radius 4'-9" Working pressure by rules 102.5 lbs sq.in.

Shape of Furnace: Plain, spherical, or dished crown Spherical Material Mild Steel Tensile strength 26.1

External diameter { top 9/16" bottom / Length as per rule / Working pressure by rules 167 lbs

Support stays circumferentially / and vertically / Are stays fitted with nuts or riveted over /

Radius of spherical or dished furnace crown 2'-3 1/2" Working pressure by rule /

Thickness of Ogee Ring 9/16" Diameter as per rule { D 66" d 62" Working pressure by rule 150 lbs sq.in.

Combustion Chamber: Material / Tensile strength / Thickness of top plate /

if dished / Working pressure by rule / Thickness of back plate 13/16" Diameter if circular /

as per rule / Pitch of stays / Are stays fitted with nuts or riveted over /

Working pressure of back plate by rules /

Material { front M.S. Tensile strength 26.3 Thickness 13/16 Mean pitch of stay tubes in nests 9.4875"
back M.S. 26.3 13/16

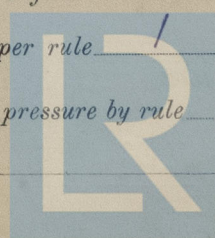
Working shell, Dia. as per rule { front 100.3 lbs Pitch in outer vertical rows { 3.5/8" Dia. of tube holes FRONT { stay 2 11/16" BACK { stay 2 17/32"
back 124 lbs 3 5/8" plain 2 5/8" plain 2 1/2"

alternate tube in outer vertical rows a stay tube Yes Working pressure by rules { front 224 lbs sq.in. back 224 " "

to combustion chamber tops: Material / Tensile strength /

and thickness of girder at centre / Length as per rule /

e apart / No. and pitch of stays in each / Working pressure by rule /



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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 / 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 Steel External diameter { plain 2 1/2" / stay 2 1/2" Thickness { No. 11 LSG 5/16"
No. of threads per inch 10 Pitch of tubes / Working pressure by rules 248 lbs sq.in.

Manhole Compensation: Size of opening in shell plate 16"x 12" Manhole 8"x 6" Madhole Section of compensating ring 4 11/16"x 1/2" No. of rivets and
of rivet holes 20 - 15/16" Outer row rivet pitch at ends 4 1/4" Depth of flange if manhole flanged 2 3/4" - 2 1/2"

Uptake: External diameter / Thickness of uptake/plate /

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

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with Yes

The foregoing is a correct description,

NAGASAKI WORKS, MITSUBISHI ZOSEN KAISHA, LTD.

GENERAL MANAGER.

Man

Dates of Survey { During progress of work in shops - - 1925. April 6, 16, 22, 25, May 6, June 1. Is the approved plan of boiler forwarded herewith Yes
while building { During erection on board vessel - - July 1. Aug. 12, Sep. 29, Nov. 11. (If not state date of approval.)
1926. Apr. 21, 29, May 10, 27, June 14, 21, 29. Total No. of visits 26.
July 1, 3, 5, 12, 19, 22, 24, 26, Aug 3.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The boiler referred to herein has been constructed under special survey in accordance with the
The Material is sound & workmanship good and it has been properly secured aboard the vessel, &
valves adjusted under steam to 100 lbs, and the boiler finally examined under working condition

Boiler finally marked:- No. 127.
LLOYD'S TEST.
200 lbs.
WP. 100 lbs
R.C. 2114-26.

Survey Fee ... £ 64:40 : When applied for, 14. 8. 1926
Travelling Expenses (if any) £ : : When received, AUG 21 1926

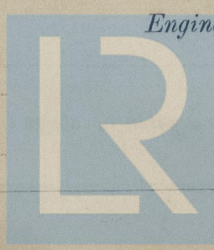
W. Kimber.

Engineer Surveyor to Lloyd's Register of Ships

Committee's Minute TUES. 21 SEP 1926

Assigned See minute on attached Mpl

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