

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.) Tons {Gross 7267 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.

Manufacturers 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. as fitted 6.2832 sq.in. Pressure to which they are adjusted 100 lbs Are they fitted with easing gear Yes

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

Not fitted at lowest deck 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"

Shell plates welded or flanged & bottom plate flanged and welded Description of riveting: circ. seams { end Sing. riv. inter. " " long. seams Double riveted

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

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

Form: 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.

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

Thickness 9/16" External diameter { top / 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 stays over thread / 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.

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

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

Pitch of stays / Are stays fitted with nuts or riveted over /

Working pressure of back plate by rules /

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

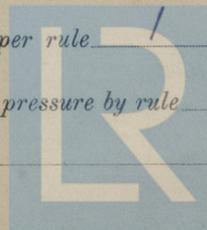
Working shell, Dia. as per rule { front 100.3 lbs back 124 lbs Pitch in outer vertical rows { 3 5/8" 3 5/8" Dia. of tube holes FRONT { stay 2 11/16" plain 2 5/8" BACK { stay 2 17/32" plain 2 1/2"

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

Material / Tensile strength /

Length as per rule /

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 $2\frac{1}{2}$ " / stay $2\frac{1}{2}$ " / 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** 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

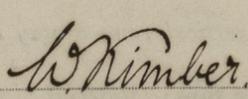
Dates of Survey { During progress of work in shops - - } **1925. April 6, 16, 22, 25, May, 6, June 1, July 1, Aug. 12, Sep. 29, Nov. 11.** Is the approved plan of boiler forwarded herewith **Yes**
 (If not state date of approval.)
 while building { During erection on board vessel - - } **1926. Apr. 21,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

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, sa
 valves adjusted under steam to 100 lbs, and the boiler finally examined under working conditio

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**


 Engineer Surveyor to Lloyd's Register of Ships

Committee's Minute **TUES. 21 SEP 1926**
 Assigned *See minute on attached Mpl*
Mag 15 27

