

REPORT ON BOILERS.

No. 1533

Received at London Office

5 JUN 1926

Date of writing Report 4th May, 1926 When handed in at Local Office 4th May 1926 Port of NAGASAKI.

No. in Survey held at NAGASAKI. Date, First Survey 7th Apr. 1925. Last Survey 22nd March 1926.

on the Steel Twin Screw Motor Vessel "LA PLATA MARU". (Number of Visits 22.) Gross Tons 7267 Net Tons 4387

built at Nagasaki. By whom built Mitsubishi Zosen Kaisha, Ltd. Yard No. 411. When built 1926.

Engines made at Winterthur, Switzerland. By whom made Sulzer Brothers. Engine No. 5477, 5483. When made 1925.

Boilers made at Nagasaki. By whom made Mitsubishi Zosen Kaisha, Ltd. Boiler No. 411. When made 1926.

Owners Osaka Shosen Kabushiki Kaisha. Port belonging to Osaka.

VERTICAL DONKEY BOILER.

Made at Nagasaki. By whom made Mitsubishi Zosen Kaisha. Boiler No. 411. When made 1926. Where fixed Fore end of Engine Casing Uppermost Dk.

Manufacturers of Steel Imperial Steel Works. Yawata. Japan.

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

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

Tested by hydraulic pressure to 200 lbs per sq.in. Date of test 29th September, 1925. No. of Certificate 121.

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

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

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

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

Boiler fitted at Uppermost deck. Is the base of the boiler insulated Yes. Largest internal dia. of boiler 5'-6" Height 13'-6"

Shell plates: Material Mild Steel. Tensile strength 28.6 Thickness 1/2"

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

Area of 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 { rivets 50.5% rivets 78.7%

Working pressure of shell by rules 138 lbs. per sq.in. Thickness of butt straps { outer / inner /

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

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" Working pressure by rule 150 lbs sq.in.

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

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

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

Radius of stays over thread / Working pressure of back plate by rules /

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

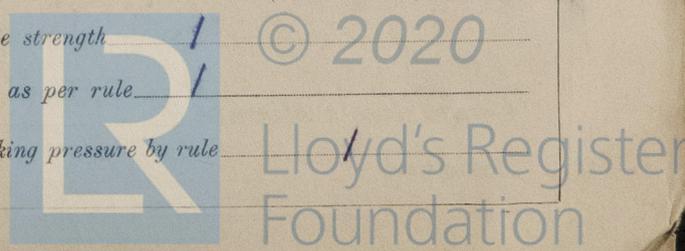
Working pressure of shell, Dia. as per rule { front 100.3 lbs. Pitch in outer vertical rows { 3 5/8" Dia. of tube holes FRONT { stay 2 11/16" BACK { stay 2 17/32"

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

Stays to combustion chamber tops: Material / Tensile strength /

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

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



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" Mudhole.** / Section of compensating ring **4 11/16" x 1/2"** / No. of rivets and diam /

of rivet holes **20 - 15/16"** / Outer row rivet pitch at ends **4 1/4"** / Depth of flange if manhole flanged **2 1/2" - 2 1/4"** /

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,

J. Ivotora

Manufact...

Dates of Survey while building	During progress of work in shops - -	1925. Apr. 7. 16. 22. 25. Mar. 6. June 1.	Is the approved plan of boiler forwarded herewith (If not state date of approval.)	Yes.
		July 1. Aug. 12. Sep. 29. Nov. 16. Dec. 7. 1926. Feb. 4. 6. Mar. 11.		
	During erection on board vessel - -	1926. Feb. 9. 20. 26. Mar. 2. 4. 5. 9. 22.	Total No. of visits	22.

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 R

The material is sound & workmanship good & it has been properly secured aboard the vessel, safet

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

Boiler finally marked:-

No. 121.
LLOYD'S TEST.
200 lbs.
WP. 100 lbs.
R.C. 29. 9. 25.

Survey Fee £ 65:60 : When applied for, 21. 4. 19 26.

Travelling Expenses (if any) £ : : When received, 26. 4. 19 26.

Committee's Minute
Assigned

TUES. 8 JUN 1926

See A.E. on brachis attached

