

REPORT ON BOILERS.

No. 7879

Received at London Office

27 SEP 1932

Date of writing Report 24.8.32 When handed in at Local Office 3rd Sept. 1932 Port of Kobe.

No. in Reg. Book. Harima Date, First Survey 1.4.32 Last Survey 5.7.32 19-

on the Single screw S/S "JOHORE MARU" (Number of Visits 11.) Tons Gross 6181.44
Net 3733.66.

Built at Harima By whom built Harima S.B. & E. Co. Ltd. Yard No. 184 When built 1932

Engines made at Kobe. By whom made Kobe Steel Works Ltd. Engine No. 184 When made 1932

Boilers made at Harima By whom made Harima S.B. & E. Co. Ltd. Boiler No. 184 When made 1932

Owners Isilara Gomei Kaista Port belonging to Fuku.

VERTICAL DONKEY BOILER.

Made at Harima By whom made Harima S.B. & E. Co. Boiler No. 184 When made 1932 Where fixed in Stokhold

Manufacturers of Steel Kawasaki Dockyard Ltd.

Total Heating Surface of Boiler 5154. Is forced draught fitted no Coal or Oil fired Coal.

No. and Description of Boilers Vertical Cochran type. Working pressure 100 lbs.

Tested by hydraulic pressure to 200 lbs. Date of test 11.5.32. No. of Certificate -

Area of Firegrate in each Boiler 22.54. No. and Description of safety valves to each boiler Two Spring loaded.

Area of each set of valves per boiler 5.6 per rule 6.28 as fitted 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 1' - 4"

Is oil fuel carried in the double bottom under boiler no. Smallest distance between base of boiler and tank top plating 2' - 0"

Is the base of the boiler insulated ✓ Largest internal dia. of boiler 6' - 6" Height 15' - 0"

Shell plates: Material steel Tensile strength 28 to 32. Thickness 1/2"

Are the shell plates welded or flanged ✓ Description of riveting: circ. seams single rivets long. seams D.R.L.

Dia. of rivet holes in 15/16" Pitch of rivets 2 1/8" Percentage of strength of circ. seams 55.9. of Longitudinal joint 87.3.

Working pressure of shell by rules 110.8. Thickness of butt straps outer - inner -

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished Material steel.

Tensile strength 26 to 30 Thickness 7/8" Radius 3' - 3" Working pressure by rules 150

Description of Furnace: Plain, spherical, or dished crown dished crown Material steel Tensile strength 26 to 30

Thickness 3/4" External diameter top - bottom - 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 2' - 8 1/4" Working pressure by rule 192

Thickness of Ogee Ring 15/16" Diameter as per rule D 6' - 6" Working pressure by rule 125.75.

Combustion Chamber: Material ✓ Tensile strength ✓ Thickness of top plate -

Radius if dished - Working pressure by rule ✓ Thickness of back plate - Diameter if circular -

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

Diameter of stays over thread ✓ Working pressure of back plate by rules ✓

Tube Plates: Material front steel Tensile strength 26 to 30. Thickness 7/8" Mean pitch of stay tubes in nests 12.562

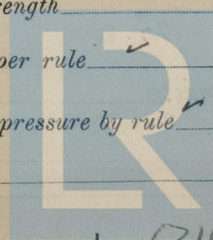
If comprising shell, Dia. as per rule front - back - Pitch in outer vertical rows 8" 4" Dia. of tube holes FRONT stay 2 1/2" BACK stay 2 1/2"

Is each alternate tube in outer vertical rows a stay tube yes Working pressure by rules front 125.4 back 127.4

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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Lloyd's Register
Foundation

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Crown stays: Material ✓ Tensile strength ✓ Diameter { at body of stay, ✓
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, ✓
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 S.D.S. External diameter { plain 2 1/2"
stay 2 1/2" Thickness { 10 L 89
3/8
No. of threads per inch 9 Pitch of tubes 4 x 3 3/4" Working pressure by rules 120
Manhole Compensation: Size of opening in shell plate 17 x 21 Section of compensating ring 15 x 3/4 No. of rivets and diameter
of rivet holes 44 2 15" Outer row rivet pitch at ends 5" Depth of flange if manhole flanged 3 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,
M. Nakagaki Manufacturer.

Dates of Survey { During progress of work in shops - 1932 April 1, 8, 20, 26, May 2, 9, 11, 25. Is the approved plan of boiler forwarded herewith 27. 2. 32.
while building { During erection on board vessel - June 7, 28, July 5. (If not state date of approval.)
Total No. of visits 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been constructed under special survey in accordance with the requirements of the Rules and approved plan; the workmanship and materials are good & on completion the boiler was tested by hydraulic pressure to 200 lbs per sq inch & found to be tight & sound & afterwards efficiently fitted in the vessel & safety valves adjusted under steam to 100 lbs per sq inch & is eligible in my opinion to have the record of 1 D.B. 100 lbs

Survey Fee £ 97. 94 When applied for, 2. 9. 1932
Travelling Expenses (if any) See Hill ref. When received, 3. 9. 1932

M. L. Gamett
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 4 OCT 1932
Assigned See other Koh. Rpt 7879

