

## REPORT ON BOILERS.

No. FE-1780

Received at London Office \_\_\_\_\_

Date of writing Report 2nd June, 19 61 When handed in at Local Office 2 19 Port of Shimonoseki

No. in Survey held at Hiroshima, Japan Date, First Survey 10th January, 1961 Last Survey 27th January, 19 61

Reg. Book. on the M.V. "SETIABUDHI" (Number of Visits 4) Tons { Gross 7,337.98 Net 4,378.73

Built at Hiroshima, Japan. By whom built Mitsubishi S.B. & Eng., Co., Ltd., Hiroshima Works Yard No. 144 When built 1961-2

Engines made at Yokohama, Japan. By whom made Nippon Heavy Ind. Co. Ltd., Yokohama Shipyard & Engine Works Engine No. D-37824 When made 1960-10

Boilers made at Osaka, Japan. By whom made Hirano Iron Works Co., Ltd. Boiler No. H-1220 When made 1960-8

Owners Ministry of Shipping of the Republic of Indonesia Port belonging to Jakarta

## VERTICAL BOILER.

Made at Osaka By whom made Hirano Iron Works Co., Ltd. Boiler No. H-1220 When made 1960-8 Where fixed Hiroshima

Manufacturers of Steel: Plates: Kawasaki Steel Corporation, Fukiai Works. Tubes:- Nippon Tokushu Steel Tube Co., Ltd.

Total Heating Surface of each Boiler 60.04 M<sup>2</sup> Is forced draught fitted No Coal or Oil fired Oil

No. and Description of Boilers 1-Cockran Boiler with Exhaust Gas Heated Economizer Working Pressure 7 kg/cm<sup>2</sup>

Economizer Cert. NO.: KOB NO.M-56365

Tested by hydraulic pressure to 14 kg/cm<sup>2</sup> Date of test 25th August, 1960. No. of Certificate KOB I-66053

Area of fire grate in each Boiler - No. and description of safety valves to each boiler 1-55 mm dia Duplex improved

Area of each set of valves per boiler { per Rule As approved High lift type.

as fitted 4750 mm<sup>2</sup> Pressure to which they are adjusted 7.2 kg/cm<sup>2</sup> 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 900 m.m.

Is oil fuel carried in the double bottom under boiler No Smallest distance between base of boiler and tank top plating 6,000 m.m.

Is the base of the boiler insulated Yes Largest internal dia. of boiler 2,000 m.m. Height 5,250 m.m.

Shell plates: Material Tensile strength Thickness

Are the shell plates welded or flanged If fusion welded, state name of welding firm

Have all the requirements of the Rules for Class I vessels been complied with Description of riveting: circ. seams { end. inter. long. seams {

Dia. of rivet holes in { circ. seams. Pitch of rivets { Thickness of butt straps { outer. inner.

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Material Tensile strength Thickness

Radius Description of Furnace: Plain, spherical, or dished crown Material

Tensile strength Thickness External diameter { top. bottom. Length as per Rule

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

Thickness of Ogee Ring Diameter as per Rule { D. d.

Combustion Chamber: Material Tensile strength Thickness of top plate

Radius if dished 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

Tube Plates: Material { front. back. Tensile strength Thickness Mean pitch of stay tubes in nests

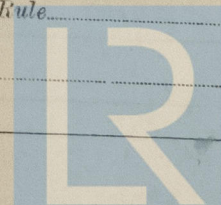
comprising shell, dia. as per Rule { front. back. Pitch in outer vertical rows { Dia. of tube holes FRONT { stay. plain. BACK { stay. plain.

each alternate tube in outer vertical rows a stay tube

orders 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



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Crown Stays: Material.....Tensile strength.....Diameter { at body of stay,.....  
or  
over threads.....

No. of threads per inch.....Screw Stays: Material.....Tensile strength.....

Diameter { at turned off part,.....  
or  
over threads.....No. of threads per inch.....Are the stays drilled at the outer ends.....

Tubes: Material.....External diameter { plain.....  
stay.....Thickness { .....

No. of threads per inch.....Pitch of tubes.....

Manhole Compensation: Size of opening in shell plate.....Section of compensating ring.....No. of rivets and diameter

of rivet holes.....Outer row rivet pitch at ends.....Depth of flange if manhole flanged.....

Uptake: External diameter.....Thickness of uptake plate.....

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,

*S. Iwasaki*

Manufacturer.

S. IWASAKI, General Manager

Hiroshima Works, Mitsubishi Shipbuilding & Engineering Co., Ltd.

16- 7-60

24- 8-60

2-11-60

Dates of Survey while building { During progress of work in shops - - }  
During erection on board vessel - - - }

1961: January, 10, 12, 16, 27.

Is the approved plan of boiler forwarded herewith (If not state date of approval.)

Total No. of visits.....4

Is this Boiler a duplicate of a previous case.....If so, state Vessel's name and Report No.....

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Donkey Boiler with exhaust gas heated economizer of this ship has been installed under the supervision of Surveyors in accordance with the requirement of the Rules, Approved plans and Secretary's letters.

The donkey boiler with exhaust gas heated economizer was examined under steam, safety valves on the donkey boiler adjusted to 7.2 kgs per sq. cm. accumulation test carried out and found satisfactory.

The safety Valves of the exhaust gas heated economizer adjusted to 9.5 kgs per sq. cm. for the reports on survey of the donkey boiler & economizer during construction in the Manufacturer's Shop. Please see Kobe Surveyor's

Report No. ~~66855~~ & No. ~~56365~~ 5b No. FE-8875 and Cert. No. M56365

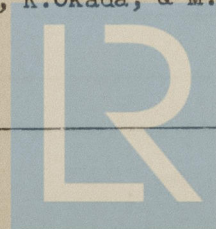
Survey Fee ... SEE Rpt 4b No. FE/780 When applied for.....19

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

Date.....FRIDAY - 4 AUG 1961

Committee's Minute.....

Engineer Surveyor to Lloyd's Register of Shipping.  
Y. Hamada, K. Okada, & M. Koi



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