

REPORT ON BOILERS.

No. FE-1780

Received at London Office

Date of writing Report 2nd June, 1961 When handed in at Local Office 2 19 61 Port of Shimonoseki

No. in Survey held at Hiroshima, Japan Date, First Survey 10th January, 1961 Last Survey 27th January, 1961
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.
Japan Steel Works Ltd., Muroran Plant.

Total Heating Surface of each Boiler 60.04 M² 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/cm²
Economizer Cert. NO.: KOB NO.M-56365

Tested by hydraulic pressure to 14 kg/cm² 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 mm² Pressure to which they are adjusted 7.2kg/cm² 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.....
long. seams..... Dia. of rivet holes in { circ. seams..... Pitch of rivets { inter.....

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..... Length as per Rule.....
bottom.....

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..... Tensile strength { Thickness { Mean pitch of stay tubes in nests.....
back.....

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

each alternate tube in outer vertical rows a stay tube - plain.....

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
S. IWASAKI, General Manager
Hiroshima Works, Mitsubishi Shipbuilding & Engineering Co., Ltd

Dates of Survey while building	During progress of work in shops - -	-	Is the approved plan of boiler forwarded herewith (If not state date of approval.)	16- 7-60
	During erection on board vessel - - -	1961: January, 10,12,16,27.		24- 8-60
				2-11-60
			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. ~~M 56365~~ 5b No. FE-8875 and Cert. No. M56365

Survey Fee \$ SEE Rpt 46 No. FE/780 When applied for..... 19

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

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

Date..... **FRIDAY - 4 AUG 1961**

Committee's Minute.....

