

REPORT ON BOILERS.

21 SEP 1958

Received at London Office

Date of writing Report 18th July 1958 When handed in at Local Office 19 Port of KOBE

No. in Survey held at Tamano, Japan Date, First Survey 10th Jan., Last Survey 14th July 1958.

Reg. Book. (Number of Visits 16) Tons { Gross 9,565.69 Net 5,900.38

Built at Tamano, Japan By whom built Mitsui S.B. & Eng. Co., Ltd. Yard No. 630 When built 1958-7

Engines made at Tamano, Japan By whom made Mitsui S.B. & Eng. Co., Ltd. Engine No. 720 When made 1958-7

Boilers made at Tamano, Japan By whom made Mitsui S.B. & Eng. Co., Ltd. Boiler No. 443 When made 1958-7

Owners Mitsui Steamship Co., Ltd. Port belonging to Tokyo

VERTICAL BOILER.

Made at Tamano By whom made Mitsui S.B. & Eng., Co. Ltd. Boiler No. 443 When made 1958-7 Where fixed In funnel

Manufacturers of Steel Tube: Yawata Iron & Steel Co., Ltd. Sumitomo Metal Ind., Steel Tube Works, Amagasaki & Wakayama

Total Heating Surface of each Boiler 112.0M² Is forced draught fitted Coal or Oil fired Exhaust Gas

No. and Description of Boilers 1: Smoke tube type exhaust gas boiler Working Pressure 7 kg/cm²

Tested by hydraulic pressure to 14 kg/cm² Date of test 22nd April, 1958 No. of Certificate I-50440, Kobe

Area of fire grate in each Boiler No. and description of safety valves to each boiler 1 set - double spring ordinary type

Area of each set of valves per boiler { per Rule 51.9mm x 2 as fitted 65mm x 2 Pressure to which they are adjusted 7.1kg/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

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

Is the base of the boiler insulated Yes Largest internal dia. of boiler 2,500mm Height 2,000mm

Shell plates: Material O.H. Steel Tensile strength 46.4 kg/mm² Thickness 12mm

Are the shell plates welded or flanged Welded If fusion welded, state name of welding firm Mitsui S.B. & Eng. Co., Ltd.

Have all the requirements of the Rules for Class I vessels been complied with Yes 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 { Top Bottom Tensile strength 43.7-45.0 kg/mm² Thickness 22mm Mean pitch of stay tubes in nests 345x360mm

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

each alternate tube in outer vertical rows a stay tube

Shipping: 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

013900-013906-0261

REPORT ON BOILERS

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 O.H. Steel External diameter { plain 88.9mm
 stay 88.9mm Thickness { 4mm
8mm
No. of threads per inch 9 **Pitch of tubes** _____
Manhole Compensation: Size of opening in shell plate 405 x 505mm Section of compensating ring 5068.8mm² No. of rivets and diameter
 of rivet holes _____ Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____
Uptake: External diameter 1,100mm Thickness of uptake plate 6mm
Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____
 Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with _____

The foregoing is a correct description,
 MITSUBISHI SHIPBUILDING & ENGINEERING CO., LTD., TAMANO WORKS
 _____ Manufacturer

Senior Managing Director.

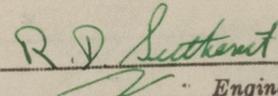
Dates of Survey while building { During progress of work in shops - - - } 1957: Dec. 6, 12, 26, 27
 1958: Jan. 10, Feb. 7, 10, March 10, 11, 18, 28
 April 1, 4, 14, 22
 During erection on board vessel - - - } 1958: 7th July
 Is the approved plan of boiler forwarded herewith 9th Sept., 1957
 (If not state date of approval.)
 Total No. of visits 16

Is this Boiler a duplicate of a previous case _____ If so, state Vessel's name and Report No. "MOGAMISAN MARU", "MIKAGESAN MARU"
"YOSHINOSAN MARU", "MANJUSAN MARU",
"MUSASHISAN MARU", "MAYASAN MARU"

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 The Exhaust Boiler of this vessel has been constructed under Special Survey in accordance with the Rules approved plans and Secretary's letters.
 The workmanship and materials are sound and good.
 The Exhaust Boiler has been examined under steam and the safety valves adjusted to 7.1 kg/cm² and found satisfactory.
 Accumulation test were carried out with satisfactory results.

Survey Fee £ ¥30,000.-
 Travelling Expenses (if any) £ See: Rpt. 1

When applied for _____ 19____
 When received _____ 19____



Engineer Surveyor to Lloyd's Register of Shipping.

TUESDAY 21 OCT 1958

Date _____
 Committee's Minute See Rpt 4b



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10-9-58
 JL