

REPORT ON BOILERS.

No. FE-5921

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) Gross 9,565.69
on the M.V. "MEGUROSAN MARU" Tons 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
Plate: Yawata Iron & Steel Co., Ltd.
Manufacturers of Steel Tube: 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 Pressure to which they are adjusted 7.1kg/cm² Are they fitted with easing gear Yes
as fitted 65mm x 2
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...
Pitch of rivets { Thickness of butt straps { outer... inner...
Dia. of rivet holes in { circ. seams Pitch of rivets Thickness of butt straps { outer... inner...
long. seams
Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Material Tensile strength Thickness
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 O.H. Steel Tensile strength 43.7-45.0kg/mm² Thickness 22mm Mean pitch of stay tubes in nests 345x360mm
Bottom O.H. Steel Tensile strength 43.7-45.0 Pitch of rivets 22mm
comprising shell, dia. as per Rule { front... back... Pitch in outer vertical rows { Dia. of tube holes { stay... plain... Top stay 96mm Bottom stay 88.9mm
plain 93mm plain 88.9mm
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

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

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

R. D. Sutton

Engineer Surveyor to Lloyd's Register of Shipping.

TUESDAY 21 OCT 1958

Date

Committee's Minute

See Rpt 4b



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