

REPORT ON BOILERS.

/SECONDARY SECTION OF DONKEY

No. FE-6482

9 APR 1959

Received at London Office

Date of writing Report 25th Feb., 1959 When handed in at Local Office MAR 27. 1959 19 Port of KOBE

No. in Survey held at Tamano Date, First Survey 22nd April, 1958 Last Survey 9th Feb., 1959.

Reg. Book. on the M.V. "OHMINESAN MARU" (Number of Visits 27) Gross 20,201.82 Tons Net 12,855.54

Built at Tamano, Japan By whom built Mitsui S.B. & Eng., Co., Ltd. Yard No. 635 When built 1959-2mo.

Engines made at Tamano, Japan By whom made Mitsui S.B. & Eng., Co., Ltd. Engine No. 739 When made 1959-2mo.

Boilers made at Tamano, Japan By whom made Mitsui S.B. & Eng., Co., Ltd. Boiler No. 454 455 When made 1959-2mo.

Owners Mitsui Steam Ship Co., Ltd. Port belonging to Tokyo.

VERTICAL BOILER.

Made at Tamano By whom made Mitsui S.B. & Eng., Co., Ltd. Boiler No. 454 & 455 When made Feb., 1959 Where fixed Boiler room

Manufacturers of Steel Plates: Yawata Works, Yawata Iron & Steel Co., Ltd.

Total Heating Surface of each Boiler 90M² Is forced draught fitted Yes Heated by Coal or Oil fired Primary Steam

No. and Description of Boilers 2 sets Mitsui B. & W. Double evaporation boiler Working Pressure 18.1 kg/cm²

Tested by hydraulic pressure to 30.7 kg/cm² Date of test 13-10-58 No. of Certificate I-53414 53415

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

Area of each set of valves per boiler { per Rule 2x4345.3mm² as fitted 2x4415.6mm² Pressure to which they are adjusted 18.1 kg/cm² Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey boiler Exh. gas eco. No Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler - Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Yes Largest internal dia. of boiler 2,180mm Height 2,224mm Length 4950

Shell plates: Material O.H. Steel Tensile strength 50.5 - 51.9 kg/mm² Thickness 22mm

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 -

mg. 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 spherical Material O.H. steel Tensile strength 43.7 kg/mm² Thickness 30mm

Radius 1,500mm 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 - 7800

Manhole Compensation: Size of opening in shell plate. 305 x 405mm Section of compensating ring (7387, 6mm) No. of rivets and diameter of rivet holes - Outer row rivet pitch at ends - Depth of flange if manhole flanged -

Uptake: External diameter 2012mm 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.

MITSUBISHI STEEL BUILDING & ENGINEERING CO., LTD., TAMANO WORKS.
S. Takata Senior Managing Director. Manufacturer

Dates of Survey while building { During progress of work in shops - - 1958: April 22, May 20, 29, July 10, 14, 17, Aug. 1, 4, 7, 12, 22, 25, 26, 28 Spet. 19, 29, Oct. 3, 9, 13, 20, Nov. 6, 27 Is the approved plan of boiler forwarded herewith (If not state date of approval.) Apr. 23-10-58

{ During erection on board vessel - - - 1959: Jan. 14, 21, 26, 30, Feb. 9 Total No. of visits 27

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These Secondary boilers have been constructed under Special Survey in accordance with the Rules, approved plans and Secretary's letters.

The materials and workmanship are sound and good and the boilers have been satisfactory installed in the ship.

The Secondary boilers have been examined under steam and the safety valves have been adjusted to 18.1 kg/cm2.

Accumulation tests carried out with satisfactory results.

Identification of Steel Plates:			
	Makers:	Charge No.	Roll No.
Shell Plates	Yawata Works; Yawata Iron & Steel Co., Ltd.	D27924 & D27812	A1984 & A1377
Nozzle Plates	- " -	S 74550	A1996
Header end plate drums	- " -	S 74550	A1463 & A1375
After end plate drums			A1638
Front end plate drums			

Survey Fee ... £66,000.- : 19

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

Date FRIDAY 24 APR 1959

Committee's Minute See Rpt. 1.

Jacobs & K. Tabuchi Engineer Surveyor to Lloyd's Register of Shipping. A. Jacobs & K. Tabuchi.

