

REPORT ON BOILERS.

No. 264

Received at London Office

7 MAY 1951

Writing Report 30th January 1951 When handed in at Local Office 19 Port of Kobe

Survey held at Tamano Japan Date, First Survey 8th August, 1950 Last Survey 7th December 1950

on the Steel Single Screw Motor Vessel "AZUMASAN MARU" (Number of Visits 10) Tons Gross 6993.45 Net 5047.67

Tamano By whom built Mitsui Shipbuilding Engineering Co., Ltd. Yard No. 556 When built Dec. 1950

Tamano By whom made Mitsui Shipbuilding Engineering Co., Ltd. Engine No. 367 When made Oct. 1950

Tamano By whom made Mitsui Shipbuilding Engineering Co., Ltd. Boiler No. 335 When made Oct. 1950

Mitsui Senpaku K. K. Port belonging to Tokyo

ICAL BOILER.

Tamano By whom made Mitsui Shipbuilding Engineering Co., Ltd. Boiler No. 335 When made Oct. 1950 Where fixed Tamano Works

Plates: Yawata Steel Iron Works Tubes: Fuso Steel Tube Works

oil - 25.0 M² Exhaust gas 27.8 M² Is forced draught fitted No. ✓ Coal or Oil fired Exhaust gas

1. Cochran Type Boiler Working Pressure 7 kg/cm²

hydraulic pressure to 14.0 kg/cm² Date of test 29th Oct., 1950 No. of Certificate B127

fire grate in each Boiler No. and description of safety valves to each boiler 1 set of double spring loaded safety valve

each set of valves per boiler { per Rule 26.92 cm² as fitted 28.27 cm² } Pressure to which they are adjusted 7.21 kg/cm² Are they fitted with casing gear Yes ✓

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 Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Largest internal dia. of boiler 1,800 mm Height 5,000 mm

Material O.H. Steel Tensile strength TOP MID. BOT. 29.7 T/A 33.7 T/A 30 T/A Thickness 12 mm

shell plates welded or flanged Riveted ✓ If fusion welded, state name of welding firm

the requirements of the Rules for Class I vessels been complied with Description of riveting: circ. seams { end Lap joint Single riveting inter

ms Lap joint double riveting dia. of rivet holes in { circ. seams 23 mm Pitch of rivets { 51.72 mm Percentage of strength of circ. seams { plate 55.4 rivets 55.2

itudinal joint { plate 66.5 rivets 72.6 Thickness of butt straps { outer inner Shell Crown: Whether complete hemisphere, dished partial

or flat Dished partial spherical Material O.H. Steel Tensile strength 29.8 T/A Thickness 16 mm

1,600 mm Description of Furnace: Plain, spherical, or dished crown Spherical ✓ Material O.H. Steel

strength 29.9 T/A Thickness 12 mm External diameter { top bottom 1,500 mm Length as per Rule

support stays circumferentially and vertically Are stays fitted with nuts or riveted over

of stays over thread Radius of spherical or dished furnace crown 738 mm

s of Ogee Ring 22 mm Diameter as per Rule { D 1,800 mm d 1,520 mm

tion Chamber: Material Tensile strength Thickness of top plate

dished Thickness of back plate Diameter if circular

s per Rule Pitch of stays

12 fitted with nuts or riveted over Diameter of stays over thread

ates: Material { front O.H. Steel Tensile strength { 30.2 T/A Thickness { 2.6 mm Mean pitch of stay tubes in nests Exhaust gas 210 mm x 225 mm

back O.H. Steel 29.8 T/A 2.3 mm

ising shell, dia. as per Rule { front Pitch in outer vertical rows { OF 180 Dia. of tube holes FRONT { stay 68±71 BACK { stay 65

back Pitch in outer vertical rows { E.G. 148 plain 48 plain

ternate tube in outer vertical rows a stay tube

to Combustion Chamber Tops: Material Tensile strength

of shell thickness of girder at centre Length as per Rule

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..... 65 mm. 45 mm. Thickness { 3.5 mm. 8.0 mm. 4.0 mm.
No. of threads per inch..... 9..... Pitch of tubes..... 75 mm x 25 mm. 95 mm x 90 mm. see plan
Manhole Compensation: Size of opening in shell plate..... 380 mm x 480 mm. Section of compensating ring..... (193.4-23) x 12 x 2. No. of rivets and
of rivet holes..... 24, 23 mm. Outer row rivet pitch at ends..... 40 mm. Depth of flange if manhole flanged..... 90 mm.
Uptake: External diameter..... 700 mm. Thickness of uptake plate..... 6 mm.
Cross Tubes: No..... External diameters { Thickness of plates.....
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with..... yes

MITSUI SHIPBUILDING & ENGINEERING CO., LTD., TAMANO WORKS.

K. Sakamaki

Director.

Dates of Survey while building During progress of work in shops - - - 1950 - Aug. 8, 17, 28 SEP. 18, 29. Is the approved plan of boiler forwarded herewith..... 29th Aug. 1950
During erection on board vessel - - - 1950 - DEC. 7. Total No. of visits..... 9..... 10

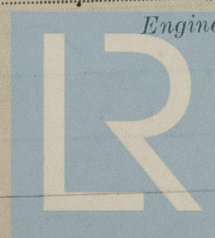
Is this Boiler a duplicate of a previous case..... No. If so, state Vessel's name and Report No.....

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

The Donkey 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 Donkey Boiler has been examined under steam the safety valves adjusted to 7.21 kg/cm² and found satisfactory.

Survey Fee ... £ : : When applied for..... 19
Travelling Expenses (if any) £ : : When received..... 19

Date..... TUES. 22 MAY 1951
Committee's Minute..... See F.E. mch. rpt.



Engineer Surveyor to Lloyd's Register of SH

Lloyd's Register Foundation