

REPORT ON BOILERS.

Received at London Office

21 JAN 1957

Date of writing Report 24th Dec. 1956 When handed in at Local Office.....19..... Port of YOKOHAMA

No. in Reg. Book. Survey held at Yokohama Date, First Survey 28th November 1956 Last Survey 4th December 1956

(Number of Visits...2.....) Tons {Gross 7662.04 Net 4407.12

on the M.V. "GEORGIA MARU"

Built at Yokohama, Japan By whom built Yokohama Shipyard & Engine Works, Mitsubishi Nippon Heavy Ind. Ltd. Yard No. 815 When built 12-1956

Engines made at - do - By whom made - do - Engine No. D3707 When made 8 - 1956

Boilers made at Osaka By whom made Hirano Iron Works, Ltd. Boiler No. H 617 When made 8 - 1956

MN as per Rule Owners Mitsubishi Kaiun K.K. Port belonging to Tokyo

MULTITUBULAR BOILERS—MAIN, // AUXILIARY, // OR DONKEY.

Manufacturers of Steel.....

Total Heating Surface of Boilers..... Of Superheaters.....

Total for Register Book..... Is forced draught fitted..... Yes..... Oil fired and exhaust gas heated

No. and Description of Boilers..... Working Pressure 10 kg/cm2

Tested by hydraulic pressure to..... Date of test..... No. of Certificate..... Can each boiler be worked separately..... Yes

Area of Firegrate in each Boiler..... No. and Description of safety valves to each boiler.....

Area of each set of valves per boiler {per Rule 71.9 cm2 - 82 cm2 as fitted 76.25 cm2} Pressure to which they are adjusted 10.2 kg/cm2 Are they fitted with easing gear..... Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler.....

Smallest distance between boilers or uptakes and bunkers or woodwork and boiler F.O. settling tank 1500m.m. Is oil fuel carried in the double bottom under boilers..... No

Smallest distance between boilers or uptakes and bunkers or woodwork and tank top plating 601m.m. Is the bottom of the boiler insulated..... Yes

Largest internal dia. of boilers..... Length..... Shell plates: Material..... Tensile strength.....

If fusion welded, state name of welding Firm..... Have all the requirements of the Rules for Class I vessels

been complied with..... Thickness..... Are the shell plates welded or flanged..... Description of riveting: circ. seams {end..... inter.....}

long. seams..... Diameter of rivet holes in {circ. seams..... long. seams.....} Pitch of rivets {.....}

Percentage of strength of circ. end seams {plate..... rivets.....} Percentage of strength of circ. intermediate seam {plate..... rivets.....}

Percentage of strength of longitudinal joint {plate..... rivets..... combined.....}

Thickness of butt straps {outer..... inner.....} No. and Description of Furnaces in each Boiler.....

Material..... Tensile strength..... Smallest outside diameter.....

Length of plain part {top..... bottom.....} Thickness of plates..... Description of longitudinal joint.....

Dimensions of stiffening rings on furnace or c.c. bottom.....

End plates in steam space: Material..... Tensile strength..... Thickness..... Pitch of stays.....

How are stays secured.....

Tube plates: Material {front..... back.....} Tensile strength {.....} Thickness {.....}

Mean pitch of stay tubes in nests..... Pitch across wide water spaces.....

Girders 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..... Combustion chamber plates; Material.....

Tensile strength..... Thickness: Sides..... Back..... Top..... Bottom.....

Pitch of stays to ditto: Sides..... Back..... Top..... Are stays fitted with nuts or riveted over.....

Front plate at bottom: Material..... Tensile strength.....

Thickness..... Lower back plate: Material..... Tensile strength..... Thickness.....

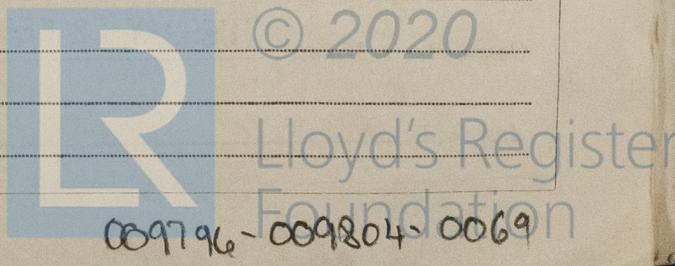
Pitch of stays at wide water space..... Are stays fitted with nuts or riveted over.....

Main 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.....



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Are the stays drilled at the outer ends..... Margin stays: Diameter { At turned off part,.....
 { Over threads.....
 No. of threads per inch.....
 Tubes: Material..... External diameter { Plain..... Thickness { No. of threads per inch.....
 { Stay.....
 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..... Steam Dome: Material.....
 Tensile strength..... Thickness of shell..... Description of longitudinal joint.....
 Diameter of rivet holes..... Pitch of rivets..... Percentage of strength of joint { Plate.....
 { Rivets.....
 Internal diameter..... Thickness of crown..... No. and diameter of
 stays..... Inner radius of crown.....
 How connected to shell..... Size of doubling plate under dome..... Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell.....
 Type of Superheater..... Manufacturers of { Tubes.....
 { Steel forgings.....
 { Steel castings.....
 Number of elements..... Material of tubes..... Internal diameter and thickness of tubes.....
 Material of headers..... Tensile strength..... Thickness..... Can the superheater be shut off and
 the boiler be worked separately..... Is a safety valve fitted to every part of the superheater which can be shut off from the boiler.....
 Area of each safety valve..... Are the safety valves fitted with easing gear.....
 Pressure to which the safety valves are adjusted..... Hydraulic test pressure: Teste
 tubes..... forgings and castings..... and after assembly in place..... Are drain cocks or
 valves fitted to free the superheater from water where necessary.....
 Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with.....

The foregoing is a correct description,
 _____ Manufacturer.

Dates of Survey { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith 7-1-56
 while building { During erection on board vessel - - } 28-11-56, 4-12-56 (If not state date of approval.)
 Total No. of visits 2

Is this Boiler a duplicate of a previous case... Yes... If so, state Vessel's name and Report No. VIRGINIA MARU No. 1693

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 The boiler has been satisfactorily installed in the vessel and examined under steam.
 The Safety valves adjusted as stated and accumulation test carried out.
 It is submitted that the boiler is eligible to be classed with this Society with the notation of DBS 12,56.

Survey Fee £ Please see 46 } When applied for.....19.....
 Travelling Expenses (if any) £ : : } When received.....19.....

W. Carmichael
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUESDAY 12 FEB 1957
 Assigned _____

