

REPORT ON BOILERS.

No. 2151F

21 JAN 1957

Received at London Office

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 and boiler F.O. settling tank

Smallest distance between boilers or uptakes and bunkers or woodports 1500m.m. Is oil fuel carried in the double bottom under boilers No

Smallest distance between boilers or uptakes and bunkers or woodports 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

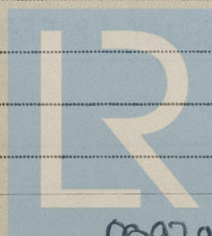
Pitch of stays at wide water space Are stays fitted with nuts or riveted over

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..... or Over threads.....

No. of threads per inch.....

Tubes: Material..... External diameter { Plain..... Stay..... Thickness { No. of threads per inch.....

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: Test 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,

W. Carmichael Manufacturer.

Dates of Survey { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith 7-1-56 (If not state date of approval.)

while building { During erection on board vessel - - } 28-11-56, 4-12-56 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.....

Committee's Minute TUESDAY 12 FEB 1957

Assigned