

REPORT ON BOILERS.

No. 2151E

Received at London Office... 21 JAN 1957

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

Survey held at Yokohama Date, First Survey 28th November Last Survey 4th December 1956

on the M.V. "GEORGIA MARU" (Number of Visits... 2...)

Yokohama Shipyard & Engine Works, Tons { Gross 7662.04
Mitsubishi Nippon Heavy Ind. Ltd. Net 4407.12

at Yokohama, Japan By whom built 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 616 When made 8 - 1956

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

Is forced draught fitted Yes Coal or Oil fired oil fired

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

Area of each set of valves per boiler { per Rule 62.2 cm² 87.5 for ordinary 58.3 for H-L
as fitted 76.75 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 and Aux. F.O. service tank 1100 cm. Is oil fuel carried in the double bottom under boilers No

Smallest distance between boilers and tank top plating 601 mm Is the bottom of the boiler insulated Yes

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

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

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

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

Stays in steam space: Material Tensile strength Thickness Pitch of stays

How are stays secured

Stays: Material { front
back Tensile strength Thickness

Pitch of stay tubes in nests Pitch across wide water spaces

Stays to combustion chamber tops: Material Tensile strength Depth and thickness of girder

centre Length as per Rule Distance apart No. and pitch of stays

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

Bottom 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

Stays in stays: Material Tensile strength

meter { At body of stay
or
Over threads No. of threads per inch

Stays: Material Tensile strength

meter { At turned off part
or
Over threads No. of threads per inch

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..... Thickness { No. of threads per inch.....
Stay.....
Pitch of tubes..... Manhole compensation: Size of opening.....
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 rivets.....
stays..... Inner radius of crown.....
How connected to shell..... Size of doubling plate under dome..... Diameter of rivet holes and
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
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.....
tubes..... forgings and castings..... and after assembly in place..... Are drain connections
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,
H. K. K. K. K. 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 - - - } (If not state date of approval.)
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.....

H. K. K. K. K.
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUESDAY 12 FEB 1957

Assigned.....



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Foundation