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pt. 5b.

REPORT ON BOILERS.

No. FE-1069
20 OCT 1960

Received at London Office

Date of writing Report 30th July 1960 When handed in at Local Office Nagasaki 19 60 Port of Nagasaki

No. in Survey held at Nagasaki Date, First Survey 11th April, 1960 Last Survey 11th July, 1960

Reg. Book. m.v. "BROOKLYN MARU" (Number of Visits 9) Tons 9549.99
5508.25

Built at Nagasaki By whom built Mitsubishi Zosen K.K. Yard No. 1532 When built 1960-7

Engines made at Nagasaki By whom made Mitsubishi Zosen K.K. Engine No. 314 When made 1960-7

Boilers made at Osaka By whom made Hirano Iron Works Co., Ltd. Boiler No. H-1109 When made 1960-2

Owners Daido Kaiun K.K. Port belonging to Kobe

VERTICAL BOILER.

Made at Nagasaki By whom made Nagasaki Boiler No. Nagasaki When made Nagasaki Where fixed Nagasaki

Manufacturers of Steel Exhaust Gas Heated Economizer Yes Exhaust Gas & Oil
Total Heating Surface of each Boiler 83M² Is forced draught fitted Yes Coal or Oil fired Oil

No. and Description of Boilers One-Cochran Boiler with Exhaust Gas Heated Economizer Working Pressure 7 kg/cm²
Economizer Cert. No. Nag. M-8678

Tested by hydraulic pressure to 1-55mm dia Duplex improved Date of test High Lift Type No. of Certificate High Lift Type

Area of fire grate in each Boiler 4750mm. No. and description of safety valves to each boiler 7.2 kg/cm² Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey boiler No Smallest distance between boiler or uptake and bunkers or woodwork 450mm.

Is oil fuel carried in the double bottom under boiler Yes Smallest distance between base of boiler and tank top plating 450mm.

Is the base of the boiler insulated Yes Largest internal dia. of boiler Height

Shell plates: Material Tensile strength Thickness Thickness

Are the shell plates welded or flanged If fusion welded, state name of welding firm

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

long. seams Dia. of rivet holes in { circ. seams..... Pitch of rivets { Thickness of butt straps { outer.....
long. seams..... inner.....

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Material Tensile strength Thickness

Radius Description of Furnace: Plain, spherical, or dished crown Material Material

Tensile strength Thickness External diameter { top..... Length as per Rule bottom.....

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

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 Thickness of top plate

Radius if dished Thickness of back plate Diameter if circular 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..... Tensile strength { Thickness { Mean pitch of stay tubes in nests back.....

If comprising shell, dia. as per Rule { front..... Pitch in outer vertical rows { Dia. of tube holes FRONT { stay..... BACK { stay.....
back..... plain..... plain.....

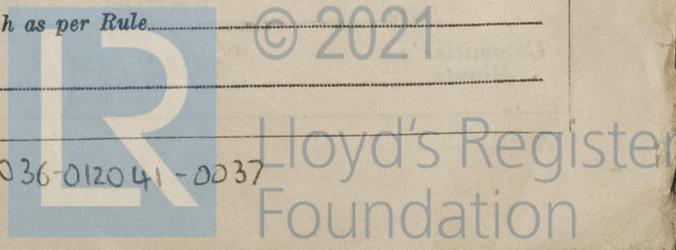
Is each alternate tube in outer vertical rows a stay tube Yes

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

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Date of writing

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Engines made

Boilers made

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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 _____

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 _____

Uptake: External diameter _____ Thickness of uptake plate _____

Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with _____

The foregoing is a correct description,

K. Kita Manufacturer.
NAGASAKI WORKS
MITSUBISHI SHIPBUILDING & ENGINEERING CO., LTD.

Dates of Survey while building { During progress of work in shops - - } _____ Is the approved plan of boiler forwarded herewith (If not state date of approval.) _____

{ During erection on board vessel - - - } 1960 April 11, 18, 19, 25; May 11, 15, 20 Total No. of visits 9

July 9, 11.

Is this Boiler a duplicate of a previous case. Yes _____ If so, state Vessel's name and Report No. m.v. "SETA MARU" FE-1068 Nag

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Donkey Boiler with exhaust gas heated economizer of this ship has been installed under the supervision of the Surveyors in accordance with the requirement of the Rules, Approved plans and Secretary's letters.

The donkey boiler with exhaust gas heated economizer was examined under steam, safety valves on the donkey boiler adjusted to 7.2 kgs per sq. cm., accumulation test carried out and found satisfactory.

The safety valves of the exhaust gas heated economizer adjusted to 11 kg/cm².

For the reports on survey of the donkey boiler & economizer during construction in the manufacturer's shop, see Kobe Surveyor's Report No. FE.7546 and Cert. No. M-1-62414, and Nag. M-8679 for economizer

Survey Fee ... See Rpt. 4b of No. FE-1069 : _____ When applied for _____ 19 _____

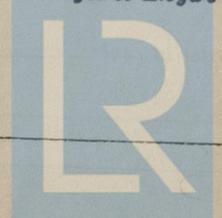
Travelling Expenses (if any) £ : _____ When received _____ 19 _____

[Signature]

U. Inai
Engineer Surveyor to Lloyd's Register of Shipping.

Date FRIDAY 11 NOV 1960

Committee's Minute See Rpt. 1



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