

pt. 5b.

REPORT ON BOILERS.

No. **FE-1069**
12 OCT 1960

Received at London Office

Date of writing Report 30th July 1960 When handed in at Local Office 19 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 &

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 No. of Certificate High Lift Type

Area of fire grate in each Boiler No. and description of safety valves to each boiler

Area of each set of valves per boiler { per Rule 4750mm. Pressure to which they are adjusted 7.2 kg/cm² Are they fitted with easing gear Yes
as fitted 4750mm.

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 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 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 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 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 Radius if dished Thickness of back plate 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 plain
back plain

Is each alternate tube in outer vertical rows a stay tube 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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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

NAGASAKI WORKS

Manufacturer.

mitsubishi shipbuilding & engineering co., ltd.

Dates of Survey while building { During progress of work in shops - - -
During erection on board vessel - - -
Is the approved plan of boiler forwarded herewith (If not state date of approval.)
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 No. FE-1069 : When applied for 10
Travelling Expenses (if any) £ : : When received 10

Date FRIDAY 11 NOV 1960

Committee's
Minute

See Rpt. 1

u. Inai Zuma
Engineer Surveyor to Lloyd's Register of Shipping.



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