

REPORT ON BOILERS.

LONDON
No. FE-1005

AND EXHAUST-GAS HEATED W.T. ECONOMISER

Received at London Office

of writing Report 19 When handed in at Local Office 19 Port of Nagasaki

Survey held at Nagasaki, Japan Date, First Survey 5-6-58 Last Survey 10-7-1958

Book. M.V. "KOTEI MARU" (Number of Visits 5) Tons { Gross 9096
Net 5337

at Nagasaki, Japan By whom built Mitsubishi Zosen K.K. Yard No. 1499 When built 1958-7

ines made at Nagasaki, Japan By whom made Mitsubishi Zosen K.K. Engine No. 301 When made 1958-4

ers made at Osaka, Japan By whom made Hirano Iron Works Co., Ltd. Boiler No. H806 When made 1958-1

onomiser Osaka, Japan By whom made Hirano Iron Works Co., Ltd. Boiler No. H819 When made 1958-1

ers. Daido Kaiun K.K. Port belonging to Kobe

VERTICAL BOILER. and W.T. Economiser.

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

ufacturers of Steel

al Heating Surface of each Boiler 80M² Economiser 66m² Is forced draught fitted No Coal or Oil fired Oil

and Description of Boilers 1-Cochran type & 1 - W.T. economiser Economiser Exhaust gas Working Pressure 7 kg/cm² Economiser 11 kg/cm²

ted by hydraulic pressure to Date of test No. of Certificate

ea of fire grate in each Boiler No. and description of safety valves to each boiler 1-60mm dia. double spring improved high lift.

ea of each set of valves per boiler { per Rule 4330 Relief valve of Economiser 1-50mm dia. single spring improved high lift.
as fitted 5655mm² Pressure to which they are adjusted 7 kg/cm² Are they fitted with easing gear Yes
(Boiler S.Vs only) Economiser 10 kg/cm²

te whether steam from main boilers can enter the donkey boiler. Smallest distance between boiler or uptake and bunkers

oodwork. Is oil fuel carried in the double bottom under boiler. Smallest distance between base of boiler and tank top plating
Boiler placed on lower platform (3rd Dk.)

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

ll plates: Material Tensile strength Thickness

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

ve all the requirements of the Rules for Class I vessels been complied with Description of riveting: circ. seams { end...
inter...
g. seams Dia. of rivet holes in { circ. seams Pitch of rivets Thickness of butt straps { outer...
long. seams inner...

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

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

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

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

meter of stays over thread Radius of spherical or dished furnace crown

ckness of Ogee Ring Diameter as per Rule { D...
d...

mbustion Chamber: Material Tensile strength Thickness of top plate

lius if dished Thickness of back plate Diameter if circular

gth as per Rule Pitch of stays

stays fitted with nuts or riveted over Diameter of stays over thread

Plates: Material { front... Tensile strength { Thickness { Mean pitch of stay tubes in nests
back...

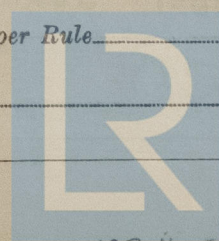
omprising shell, dia. as per Rule { front... Pitch in outer vertical rows { Dia. of tube holes FRONT { stay... BACK { stay...
back... plain... plain...

ch alternate tube in outer vertical rows a stay tube

ers to Combustion Chamber Tops: Material Tensile strength

h and thickness of girder at centre Length as per Rule

nce 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 Yes

The foregoing is a correct description,

S. Koga

NAGASAKI WORKS

MITSUBISHI SHIPBUILDING & ENGINEERING CO., LTD.

Manufacture

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.) 6-12-57
During erection on board vessel - - } 1958, JUNE 5, 9, 27, 30 JULY 10 Total No. of visits 5 (Nagasaki)

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. "KOSEI MARU", "KOHOH MARU" & "KOBU"
Rpt.No. Smk FE-775, FE-795 & FE-

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The Donkey Boiler and exhaust-gas heated Economiser of this ship have been installed under special survey in accordance with the Rules, approved plans and Secretary's letters.

The materials and workmanship are good.

The Economiser operates only in conjunction with the donkey boiler when ship's at sea.

The Donkey Boiler and Economiser have been examined under steam, safety and relief valves adjusted to 7 kg/cm² and 10 kg/cm² respectively, accumulation test also carried out and found satisfactory.

For the reports on survey of the donkey boiler and economiser during construction in the ships, see Kobe Surveyors' Rpt.No.FE-5453 and cert.No.M-47763 attached herewith.

Survey Fee ... £ : : When applied for 19

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

FRIDAY - 5 SEP 1958

Date _____

Committee's Minute See Rpt. 1.

Atterley K. Sakurai & S. Hashiguchi
Engineer Surveyor to Lloyd's Register of Shipping.



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