

REPORT ON BOILERS.

AND EXHAUST-GAS HEATED W.T. ECONOMISER

Received at London Office

Date 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

Place at Nagasaki, Japan By whom built Mitsubishi Zosen K.K. Yard No. 1499 When built 1958-7
Engines made at Nagasaki, Japan By whom made Mitsubishi Zosen K.K. Engine No. 301 When made 1958-4
Boilers made at Osaka, Japan By whom made Hirano Iron Works Co., Ltd. Boiler No. H806 When made 1958-1
Economiser Osaka, Japan By whom made Hirano Iron Works Co., Ltd. Boiler No. H819 When made 1958-1
Manufacturers Daido Kaiun K.K. Port belonging to Kobe

VERTICAL BOILER. and W.T. Economiser.

Place at... By whom made... Boiler No... When made... Where fixed Nagasaki
Manufacturers of Steel...

Total Heating Surface of each Boiler 80M², Economiser 66m² Is forced draught fitted No Coal or Oil fired Oil
Description of Boilers 1-Cochran type & 1 - W.T. economiser Working Pressure 7 kg/cm² Economiser 11 kg/cm²

Tested by hydraulic pressure to... Date of test... No. of Certificate...
Area of fire grate in each Boiler... No. and description of safety valves to each boiler 1-60mm dia. double spring improved high lift.
Area 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 Economiser 10 kg/cm² Are they fitted with easing gear Yes
(Boiler S.Vs only)

Is oil fuel carried in the double bottom under boiler... Smallest distance between boiler or uptake and bunkers
Boiler placed on lower platform (3rd Dk.)
Is the base of the boiler insulated... Largest internal dia. of boiler... Height...

All plates: Material... Tensile strength... Thickness...
If the shell plates welded or flanged... If fusion welded, state name of welding firm...

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

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

Description of Furnace: Plain, spherical, or dished crown... Material...
Tensile strength... Thickness... External diameter { top... bottom... Length as per Rule...

Number 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...
Thickness of back plate... Diameter if circular...

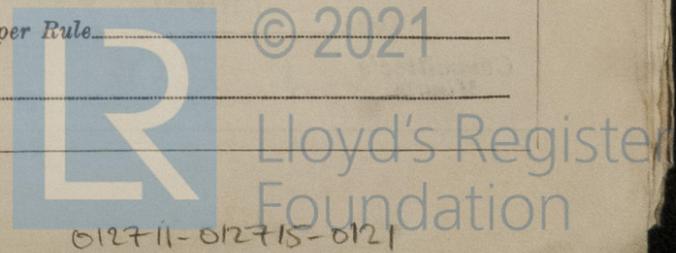
Length as per Rule... Pitch of stays...
Are stays fitted with nuts or riveted over... Diameter of stays over thread...

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

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

Do alternate tube in outer vertical rows a stay tube...
Plates to Combustion Chamber Tops: Material... Tensile strength...

Thickness and thickness of girder at centre... Length as per Rule...
Distance apart... No. and pitch of stays in each...



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 {

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. Manufacturer

Dates of Survey while building { During progress of work in shops - - }
{ During erection on board vessel - - - } 1958, JUNE 5, 9, 27, 30 JULY 10 Is the approved plan of boiler forwarded herewith (If not state date of approval.) 6-12-57
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-795

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

Atterday K. Sakuchi & S. Hashiguchi
Engineer Surveyor to Lloyd's Register of Shipping.

FRIDAY - 5 SEP 1958

Date _____
Committee's Minute See Rpt. 1.

