

5b.

## REPORT ON BOILERS.

No. 775

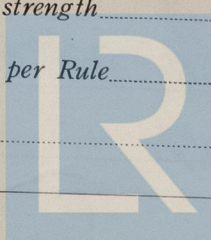
Received at London Office

115 OCT 1957

Writing Report 31st Aug., 1957 When handed in at Local Office 19 Port of Nagasaki (Shimonoseki)Survey held at Nagasaki Date, First Survey 20th May, 1957 Last Survey 25th July, 1957Book. K.V. "KOSEI MARU" (Number of Visits 9) Tons { Gross 9,202  
Net 5,353at Nagasaki By whom built Mitsubishi Zosen K.K. Nagasaki Works Yard No. 1485 When built 1957-7- ditto - By whom made - ditto - Engine No. 298 When made 1957-7Osaka By whom made Hirano Iron Works Co. Ltd. Boiler No. H577 When made 1957-2Daido Kaiun K.K. Port belonging to Kobe

## EXHAUST GAS HEATED ECONOMIZER

## TYPICAL BOILER.

at Nagasaki By whom made Mitsubishi Zosen K.K., Heater Nagasaki Works Boiler No. 1475 When made 1957-7 Where fixed NagasakiManufacturers of Steel Sumitomo Metal Industries Ltd., Steel Tube WorksHeater Heating Surface of Boiler 66M<sup>2</sup> Is forced draught fitted - Coal or Oil fired M.E. Exhaust Gas ofand Description of Boilers 1-Water Tube Forced Circulation Type Exhaust Gas Heater Working Pressure 7 kg/cm<sup>2</sup> Designed Pressure 4 kg/cm<sup>2</sup>tested by hydraulic pressure to 22 kg/cm<sup>2</sup> Date of test 3rd April, 1957 No. of CertificateNo. and description of safety valves to each boiler Xof each set of valves per boiler { per Rule X Pressure to which they are adjusted X Are they fitted with easing gear X  
as fittedwhether steam from main boilers can enter the donkey boiler - Smallest distance between boiler or uptake and bunkersIs oil fuel carried in the double bottom under boiler - Smallest distance between base of boiler and tank top platingIs the base of the boiler insulated - Largest internal dia. of boiler - Height -plates: Material - Tensile strength - Thickness -the shell plates welded or flanged - If fusion welded, state name of welding firm -all the requirements of the Rules for Class I vessels been complied with - Description of riveting: circ. seams { end -  
inter -seams Dia. of rivet holes in { circ. seams - Pitch of rivets { Percentage of strength of circ. seams { plate -  
long. seams - rivets -Longitudinal joint { plate - Thickness of butt straps { outer - Shell Crown: Whether complete hemisphere, dished partial  
rivets - inner -circular, or flat - Material - Tensile strength - Thickness -Description of Furnace: Plain, spherical, or dished crown - Material -Tensile strength - Thickness - External diameter { top - Length as per Rule  
bottom -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 -as if dished - Thickness of back plate - Diameter if circular -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 -comprising shell, dia. as per Rule { front - Pitch in outer vertical rows { Dia. of tube holes FRONT { stay - BACK { stay  
back - plain - plain -each alternate tube in outer vertical rows a stay tube -Stays to Combustion Chamber Tops: Material - Tensile strength -and thickness of girder at centre - Length as per Rule -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,

*S. Koga*  
NAGASAKI WORKS  
Manufacturer.

MITSUBISHI SHIPBUILDING & ENGINEERING CO., LTD.

Dates of Survey { During progress of work in shops -- { March. 20, 26, 27  
while building { April 1, 3 1957 Is the approved plan of boiler forwarded herewith 7-2-1957  
{ During erection on board vessel --- { April 13, 18  
July 15, 20, 25, 1957 (If not state date of approval.)  
Total No. of visits 9.

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. M.V. "KOSOH MARU No. 570 Shimono

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

The exhaust gas heated economizer has been made under special survey in accordance with the requirements of the Rules, the approved plans and the Secretary's letters.

The donkey boiler with the exhaust gas heated economizer has been installed under the supervision of the surveyors in accordance with the requirements of the Rules, the approved and workmanship are sound and good.

The donkey boiler with exhaust gas heated economizer was examined under steam, safety valves of donkey boiler adjusted to 7 kg/cm<sup>2</sup>, accumulation test carried out and found satisfactory.

For the report on survey of the donkey boiler during construction in the shop, please see Kobe surveyor's Rpt. No. FE-4555 attached herewith. *7-2-10*

Survey Fee ... £24,000 : } When applied for SEP. 30. 1957  
Travelling Expenses (if any) £ : } When received LOCALLY 19

Date TUESDAY - 5 NOV 1957

Committee's Minute *See Rpt. 1.*

*Shiramine*  
Engineer Surveyor to Lloyd's Register of Shipping.



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