

REPORT ON BOILERS.

No. 2325

Received at London Office

119 OCT 1954

Report 19..... When handed in at Local Office OCT - 8. 1954 Port of K O B E

Survey held at Aioi, Japan Date, First Survey 14-1-54 Last Survey 30-6-1954

the Steel Single screw M/V "ISE-MARU" (Number of Visits 15) Tons { Gross 13,220.70
Net 9,350.81

Built at Aioi, Japan By whom built Harima Shipbuilding & Engineering Co., Ltd., Yard No. 481 When built July, 54

at Aioi, Japan By whom made Harima Shipbuilding & Engineering Co., Ltd., Engine No. 119 When made July, 54

at Aioi, Japan By whom made Harima Shipbuilding & Engineering Co., Ltd., Boiler No. 771 When made July, 54

Power 42.626 Owners Terukuni Kaiun K.K. Port belonging to Tokyo

BULAR BOILERS ~~MAIN~~ ~~AUXILIARY~~ ~~OR~~ DONKEY.

Tube: Sumitomo Metal Industries Co.,
Plate: The Yawata iron & steel Co., Ltd., (Letter for Record and for merchant)

g Surface of Boilers 59.4 M2 ✓ Is forced draught fitted None Coal or Oil fired Oil ✓

ription of Boilers 1 x Dry Combustion Multitubular Boiler ✓ Working Pressure 9 kg/cm2 ✓

raulic pressure to 17.0 kg/cm2 Date of test 30-3-54 No. of Certificate B 548 Can each boiler be worked separately -

rate in each Boiler - No. and Description of safety valves to each boiler 1 x 80 mm Duplex Ordinary Type

set of valves per boiler { per Rule As Approved 3600 mm2 ✓
as fitted 10,030 mm2 Pressure to which they are adjusted 9 kg/cm2 ✓ Are they fitted with easing gear Yes ✓

key boilers, state whether steam from main boilers can enter the donkey boiler No. Main Boiler

nce between boilers ~~XXXXXX~~ and bunkers ~~XXXXXX~~ 1,500 mm Is oil fuel carried in the double bottom under boilers No.

nce between shell of boiler and ~~XXXXXX~~ Boiler Platform 1,000 mm Is the bottom of the boiler insulated Yes ✓

al dia. of boilers 2,300 mm ✓ Length 2,700 mm ✓ Shell plates: Material O.H. Steel ✓ Tensile strength 49.4-51.0 kg/mm2

14 mm ✓ Are the shell plates welded or flanged Welded ✓ Description of riveting: circ. seams { end -
inter -

Diameter of rivet holes in { circ. seams -
long. seams - Pitch of rivets { -

strength of circ. end seams { plate -
rivets - Percentage of strength of circ. intermediate seam { plate -
rivets -

strength of longitudinal joint { plate -
rivets - Working pressure of shell by Rules As Approved
combined -

utt straps { outer -
inner - No. and Description of Furnaces in each Boiler 1 x Holmes Type ✓

O.H. Steel mm ✓ Tensile strength 44.5 kg/mm2 ✓ Smallest outside diameter 774 mm 924 mm

n part { 52124 mm x 2
bottom "as plan" Thickness of plates { crown 12 mm ✓
bottom 12 mm ✓ Description of longitudinal joint Fusion Welded ✓

stiffening rings on furnace or c.c. bottom - Working pressure of furnace by Rules As Approved

steam space: Material O.H. Steel ✓ Tensile strength 45.3 kg/mm2 ✓ Thickness 22 mm ✓ Pitch of stays 440 mm ✓

ecured Double Nuts with Double Washer both side ✓ Working pressure by Rules As Approved

Material { front O.H. Steel ✓ Tensile strength 45.3 kg/mm2 ✓ Thickness 22 mm ✓
back O.H. Steel ✓ Tensile strength 45.3 kg/mm2 ✓ Thickness 22 mm ✓

stay tubes in nests 11.165" Pitch across wide water spaces 380 mm ✓ Working pressure { front 133.6 Lbs/in2
back "

bustion chamber tops: Material - Tensile strength - Depth and thickness of girder -

Length as per Rule - Distance apart - No. and pitch of stays -

Working pressure by Rules - Combustion chamber plates: Material -

Thickness: Sides - Back - Top - Bottom -

ditto: Sides - Back - Top - Are stays fitted with nuts or riveted over -

e by Rules - Front plate at bottom: Material O.H. Steel ✓ Tensile strength 45.3 kg/mm2

2 mm Lower back plate: Material O.H. Steel ✓ Tensile strength 45.3 kg/mm2 Thickness 22 mm ✓

wide water space - Are stays fitted with nuts or riveted over -

175.5 Lbs/in2 Main stays: Material O.H. Steel ✓ Tensile strength 44.9 kg/mm2 ✓

of stay 50 mm ✓ No. of threads per inch 6 ✓ Area supported by each stay 161 Sq.in

eads 24 " by Rules As Approved Screw stays: Material - Tensile strength -

off part, - No. of threads per inch - Area supported by each stay -

eads -

Working pressure by Rules. - Are the stays drilled at the outer ends. - Margin stays: Diameter { At turned off part, or Over threads. -
No. of threads per inch. - Area supported by each stay. - Working pressure by Rules. 2.9 mm (3.6 mm approved)
Tubes: Material O.H. Steel ✓ External diameter { Plain 70 mm ✓ Thickness 8.0 mm ✓ No. of threads per inch. -
Pitch of tubes. 95 x 98 mm ✓ Working pressure by Rules. As Approved Manhole compensation: -
shell plate 440mm x 540mm ✓ Section of compensating ring. 2 x 18.93 IN² No. of rivets and diameter of rivet holes. -
Outer row rivet pitch at ends. - Depth of flange if manhole flanged. 80 mm ✓ Steam Dome: Material. -
Tensile strength. - Thickness of shell. - Description of longitudinal joint. -
Diameter of rivet holes. - Pitch of rivets. - Percentage of strength of joint { Plate. - Rivets. -
Internal diameter. - Working pressure by Rules. - Thickness of crown. -
stays. - Inner radius of crown. - Working pressure by Rules. -
How connected to shell. - Size of doubling plate under dome. - Diameter of rivet. -
of rivets in outer row in dome connection to shell. -

Type of Superheater. - Manufacturers of { Tubes. - Steel forgings. - Steel castings. -
Number of elements. - Material of tubes. - Internal diameter and thickness of tubes. -
Material of headers. - Tensile strength. - Thickness. - Can the superheater be worked separately. -
the boiler be worked separately. - Is a safety valve fitted to every part of the superheater which can be shut off from the boiler. -
Area of each safety valve. - Are the safety valves fitted with casing gear. -
Rules. - Pressure to which the safety valves are adjusted. -
tubes. - forgings and castings. - and after assembly in place. -
valves fitted to free the superheater from water where necessary. -
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with. Yes

1954. JAN 14. FEB 27. MARCH 6. 9. 13. 16
Dates of Survey while building { During progress of work in shops - - 25. 26. 30. Are the approved plans of boiler and superheater forwarded hereunder (If not state date of approval.)
During erection on board vessel - - - 1954. April 7. May 21. June 18. 21. 24. 30. Total No. of visits. 15

Is this Boiler a duplicate of a previous case. No If so, state Vessel's name and Report No. -

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

The Donkey Boiler of this vessel has been constructed under Special Survey in accordance with the Rules, Approved Plans and Secretary's Letters.
The Materials and workmanship are sound and good.
The Donkey boiler has been examined under steam and the safety valves adjusted and accumulation test carried out and found satisfactory.

Survey Fee ... £ 14.000 } When applied for, OCT. - 8. 1954. 19.....
Travelling Expenses (if any) £ See Rpt. 1. } When received 19.....

Engineer Surveyor to Lloyd's Register

Committee's Minute

Assigned See Rpt. 4 C.



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