

REPORT ON BOILERS.

No. FE-3532

K O B E

Received at London Office 9 - AUG 1956

K O B E

Date of writing Report 19 When handed in at Local Office 19 Port of KOBE & NAGASAKI

Survey held at Kobe and Nagasaki Date, First Survey 19th Oct., 1955 Last Survey 15th Feb., 1956

No. in Reg. Book. (Number of Visits 18) Gross Tons Net Tons

on the

Built at Nagasaki, Japan By whom built Mitsubishi Zosen K.K. Yard No. 1465 When built

Engines made at By whom made Engine No. When made

Boilers made at Osaka, Japan By whom made Hirano Iron Works Co., Ltd. Boiler No. H515 When made Feb., 1956

Owners Daido Kaiun K.K. Port belonging to Kobe

VERTICAL BOILER.

Made at Osaka, Japan By whom made Hirano Iron Wks., Co. Ltd. Boiler No. H515 When made Feb. 1956 Where fixed Nagasaki

Manufacturers of Steel Plates: - Yawata Iron & Steel Co., Ltd., Yawata. Tubes: - Sumitomo Metal Co., Ltd., Amagasaki.

Total Heating Surface of each Boiler 80M² Is forced draught fitted No Coal or Oil fired Oil

No. and Description of Boilers One Cochran Donkey Boiler Working Pressure 7.0 kg/cm²

Tested by hydraulic pressure to 14.0 kg/cm² Date of test 8th February, 1956 No. of Certificate I-28711

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 Pressure to which they are adjusted Are they fitted with easing gear

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

Woodwork Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Largest internal dia. of boiler 2400mm Height 5200mm

Top & Bot. 16mm Middle: 18mm

Shell plates: Material Boiler Steel Tensile strength 50.5-52.1 kg/cm² Thickness 18mm

Are the shell plates welded or flanged Shell crown, welded Kawasaki Dockyard Co., Ltd.

Have all the requirements of the Rules for Class I vessels been complied with Yes Description of riveting: circ. seams { Double zigzag

Double zigzag with double butt strap Dia. of rivet holes in { circ. seams 26.5mm Pitch of rivets { Top 85mm Thickness of butt straps { outer 13mm

long. seams 23.0mm Dished Bot. 86mm inner 16mm

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat partial Material Boiler Steel Tensile strength 44.8 kg/mm² Thickness 23mm

Radius 1,900mm Description of Furnace: Plain, spherical, or dished crown Spherical Material Boiler Steel

Tensile strength 42.4-42.7 kg/mm² Thickness 18mm 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 1038mm

Thickness of Ogee Ring 32mm Diameter as per Rule { D 2400mm

d 1981mm

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 boiler steel Tensile strength 42.1-43.1 kg/mm² Thickness { 30mm Mean pitch of stay tubes in nests 247.5mm

back boiler steel 44.5-45.4 kg/mm² 30mm

comprising shell, dia. as per Rule { front 215mm Pitch in outer vertical rows { 105mm Dia. of tube holes FRONT { stay 64.75mm

back 2226mm 105mm BACK { stay 69.75mm

plain 65mm plain 67mm

Each alternate tube in outer vertical rows a stay tube Yes

Stays 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

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Crown Stays: Material _____ Tensile strength _____ Diameter { at body of stay, _____ or over threads _____ Date of writing _____

No. of threads per inch _____ Screw Stays: Material _____ Tensile strength _____ No. in Reg. Book. 36405

Diameter { at turned off part, _____ or over threads _____ No. of threads per inch _____ Are the stays drilled at the outer ends _____

Tubes: Material Seamless mild steel External diameter { plain 65mm stay 65mm Thickness { 3.5mm 8.0mm Built at _____

No. of threads per inch 9 Pitch of tubes Vertical 105mm x Horizontal 95mm Owners _____

Manhole Compensation: Size of opening in shell plate _____ Section of compensating ring _____ No. of rivets and diam _____

of rivet holes _____ Outer row rivet pitch at ends _____ Depth of flange if manhole flanged 85mm Oil Engines _____

Generators m _____

Uptake: External diameter _____ Thickness of uptake plate _____ No. of Sets _____

Is Set intend _____

Cross Tubes: No _____ No External diameters { _____ Thickness of plates _____ OIL ENG _____

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with _____ Yes

The foregoing is a correct description,

7 Ueda
HIRANO IRON WORKS CO., LTD. Manufacture

Dates of Survey { During progress of work in shops - - 1955: Oct. 19, 25, Nov. 1, 8, 16, 19, Is the approved plan of boiler forwarded herewith 25-11-54 (If not state date of approval.)
while building { During erection on board vessel - - - 1956: Jan 7, 10, 27, Feb. 1, 2, 4, 6, 8, 15
Total No. of visits 18 Kobe

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. M.V. "KOCHU MARU" (Yard No. 1445)

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

This boiler has been constructed under Special Survey in accordance with the Rules, approved plans and Secretary's letters.

The material and workmanship are sound and good.

This boiler has been examined under hydraulically and found satisfactory.

Survey Fee ... £28,250 (Kob)
Travelling Expenses (if any) £ 3,560 (Kob)

When applied for 20th April 1956.
Locally.
When received 19

FRIDAY 14 SEP 1956

Date _____
Committee's Minute _____

Engineer Surveyor to Lloyd's Register of Shipping



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