

REPORT ON BOILERS.

No. 5665

Received at London Office

Date of writing Report 9/4/1927 When handed in at Local Office 20/4/1927 Port of Kobe.
 No. in Survey held at Harima. Date, First Survey 8/12/26 Last Survey 6/4/1927
 g. Book Single Screw MOTORSHIP "CHOAN MARU." (Number of Visits 6) Gross 2607
 on the Osaka Shosen Kaisha. Tons Net 1399
 Built at Harima. By whom built Kobe Steel Works. Harima Dockyard. Yard No. 123. When built 1927.
 Engines made at Kobe. By whom made Kobe Steel Works. Engine No. 69. When made 1927.
 Boilers made at ✓ By whom made ✓ Boiler No. ✓ When made ✓
 Owners Osaka Shosen Kaisha. Port belonging to Osaka.

VERTICAL DONKEY BOILER.

Made at ANWAN, SEUTUNG By whom made COCHRAN & CO ANNAN LTD Boiler No. 10046 When made 1926 Where fixed D.B. RECESS
 Manufacturers of Steel See also Glasgow Report No 45784.
 Total Heating Surface of Boiler 600 sq ft Is forced draught fitted ✓ Coal or Oil fired COAL.
 No. and Description of Boilers 1. COCHRAN T-PE. Working pressure 100 lb
 Tested by hydraulic pressure to ✓ Date of test ✓ No. of Certificate 17155.
 Area of Firegrate in each Boiler 6.5 sq ft No. and Description of safety valves to each boiler 2 Direct Spring
 Area of each set of valves per boiler 2 x 4 sq ft Pressure to which they are adjusted 104 lb Are they fitted with easing gear YES
 State whether steam from main boilers can enter the donkey boiler ✓ Smallest distance between boiler or uptake and bunkers ✓
 Woodwork 1'-6" Is oil fuel carried in the double bottom under boiler YES Smallest distance between base of boiler and tank top plating ✓
1'-10" Is the base of the boiler insulated 5" CEMENT Largest internal dia. of boiler ✓ Height ✓
 Shell plates: Material ✓ Tensile strength ✓ Thickness ✓
 Are the shell plates welded or flanged ✓ Description of riveting: circ. seams ✓ long. seams ✓
 Dia. of rivet holes in ✓ Pitch of rivets ✓ Percentage of strength of circ. seams ✓ of Longitudinal joint ✓
 Working pressure of shell by rules ✓ Thickness of butt straps ✓
 Shell Crown: Whether complete hemisphere, dished partial spherical, or flat ✓ Material ✓
 Tensile strength ✓ Thickness ✓ Radius ✓ Working pressure by rules ✓
 Description of Furnace: Plain, spherical, or dished crown ✓ Material ✓ Tensile strength ✓
 Thickness ✓ External diameter ✓ Length as per rule ✓ Working pressure by rules ✓
 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 ✓ Working pressure by rule ✓
 Thickness of Ogee Ring ✓ Diameter as per rule ✓ Working pressure by rule ✓
 Combustion Chamber: Material ✓ Tensile strength ✓ Thickness of top plate ✓
 Radius if dished ✓ Working pressure by rule ✓ 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 ✓ Working pressure of back plate by rules ✓
 Tube Plates: Material ✓ Tensile strength ✓ Thickness ✓ Mean pitch of stay tubes in nests ✓
 If comprising shell, Dia. as per rule ✓ Pitch in outer vertical rows ✓ Dia. of tube holes FRONT ✓ BACK ✓
 Is each alternate tube in outer vertical rows a stay tube ✓ Working pressure by rules ✓
 Girders to combustion chamber tops: Material ✓ Tensile strength ✓
 Depth and thickness of girder at centre ✓ Length as per rule ✓
 Distance apart ✓ No. and pitch of stays in each ✓ Working pressure by rule ✓

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Crown stays: Material Tensile strength Diameter { at body of stay, or over threads. No. of threads per inch Area supported by each stay Working pressure by rules

Screw stays: Material Tensile strength Diameter { at turned off part, or over threads. No. of threads per inch Area supported by each stay Working pressure by rules Are the stays drilled at the outer ends

Tubes: Material External diameter { plain stay Thickness No. of threads per inch Pitch of tubes Working pressure by rules

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 23 inclusive for boilers been complied with

Kobe Steel Works, Harima Ship Yard, Manager.

The foregoing is a correct description, A. Mikami Manufacturer.

Dates of Survey while building { During progress of work in shops - - During erection on board vessel - - } Is the approved plan of boiler forwarded herewith (If not state date of approval.) NO.

8/2/26.. 14/1/27. 28/1/27. 28/1/27. 22/3/27 Total No. of visits 6.

6/4/27.

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

This Dinky Boiler has been efficiently installed on board in accordance with Rule requirements, & the vessel is in my opinion eligible for the notation "Dinky Boiler 100 lbs"

The safety valves have been adjusted under steam accordingly.

Survey Fee ... 50 - : (Installation only)

Travelling Expenses (if any) £ : : When applied for, 14/4/1927

When received, 2/6/1927

Committee's Minute

Assigned

TUES. 24 MAY 1927

See p. 8. rpt. attached

