

REPORT ON BOILERS.

No. 5503.

Received at London Office

3 JAN 1927

Date of writing Report 19.11.1926 When handed in at Local Office 30.11.1926 Port of KOBÉ

No. in Survey held at HARIMA Date, First Survey 7.10.26 Last Survey 19.11.1926

Reg. Book. on the Twin Screw motorship "YAHIKO MARU". (Number of Visits 5) Tons Gross 5742.4 Net 3394.9

Built at HARIMA By whom built KOBÉ STEEL WORKS HARIMA DOCKYARD Yard No. III When built 1926

Engines made at KOBÉ By whom made KOBÉ STEEL WORKS. Engine No. 63164 When made 1926

Boilers made at ✓ By whom made ✓ Boiler No. ✓ When made ✓

Owners ITAYA MIYAKICHI Port belonging to KOBÉ

SEE ALSO GLASGOW REPORT NO 45401

VERTICAL DONKEY BOILER.

Made at ANNAN, SCOTLAND By whom made COCHRAN ANNAN LTD Boiler No. 9478 When made 1926 Where fixed ENGINE ROOM.

Manufacturers of Steel

Total Heating Surface of Boiler Is forced draught fitted NO Coal or Oil fired OIL.

No. and Description of Boilers 1 BACHMAN DONKEY BOILER (VERTICAL) Working pressure 125 lb.

Tested by hydraulic pressure to Date of test No. of Certificate 17045

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 SPRING LOADED.

Area of each set of valves per boiler { per rule 2.36 sq. in. as fitted 6.18 sq. in. } Pressure to which they are adjusted 127 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 ✓ Is oil fuel carried in the double bottom under boiler NO ✓ Smallest distance between base of boiler and tank top plating

3'-3" ✓ Is the base of the boiler insulated NO ✓ Largest internal dia. of boiler Height

Shell plates: Material Tensile strength Thickness

Are the shell plates welded or flanged Description of riveting: circ. seams { end. long. seams inter. }

Dia. of rivet holes in { circ. seams Pitch of rivets Percentage of strength of circ. seams { plate rivets of Longitudinal joint { plate rivets combined }

Working pressure of shell by rules Thickness of butt straps { outer inner }

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 NO Material Tensile strength

Thickness External diameter { top bottom } 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 { D d Working pressure by rule

Combustion Chamber: Material Tensile strength Thickness of top plate

Dia. 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

Stay 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 }

Each alternate tube in outer vertical rows a stay tube Working pressure by rules { front back }

Boilers to combustion chamber tops: Material Tensile strength

Length and thickness of girder at centre Length as per rule

Distance apart No. and pitch of stays in each Working pressure by rule

009341-009349-0177

© 2021

Lloyd's Register Foundation

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 _____ Thickness { _____
stay _____

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 diam _____

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 _____

The foregoing is a correct description

J. Mikami THE KUBE STEEL WORKS
Manufacture

Dates of Survey { During progress of work in shops - - 1926
while building { During erection on board vessel - - 22. 7. 26 - Nov 10. 16. 26

Is the approved plan of boiler forwarded herewith (If not state date of approval.)

No.

Total No. of visits 5.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This donkey boiler together with its oil fuel burning installation has been efficiently installed on board in accordance with the requirements of the vessel & in my opinion suitable for the notation "Donkey Boiler 125 lbs" & the safety valves have been adjusted accordingly.

Survey Fee (installing oil) ... \$ 60.00
Travelling Expenses (if any) £ See mch. rpt. f. }
When applied for, 19
When received, 19

Committee's Minute
Assigned

FRI, 7 JAN 1927

See H.E. rpt attached

J. McManis
Engineer Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register
Foundation