

REPORT ON BOILERS.

No. 6195.

Received at London Office

23 AUG 1928

Date of writing Report 25-7-1928 When handed in at Local Office 19 Port of Kobe.

No. in Survey held at Lama. Date, First Survey 26-9-27 Last Survey 24-7-1928.
Reg. Book on the Steel Single Screw Motorship "TATSUTASAN MARU" (Number of Visits 19.) Tons { Gross 1992.
Net 1098.

built at Lama. By whom built Mitsui Bussan Kaisha. Yard No. 134 When built 1928
engines made at Lama. By whom made Mitsui Bussan Kaisha. Engine No. 134 When made 1928
boilers made at Lama. By whom made Mitsui Bussan Kaisha. Boiler No. 134 When made 1928.
owners Mitsui Bussan Kaisha. Port belonging to Tokio.

VERTICAL DONKEY BOILER.

made at Lama By whom made Mitsui Bussan Kaisha Boiler No. 134. When made 1928. Where fixed platform aff. Bot. eng. room
manufacturers of Steel D. Corville & Sons Ltd., Motherwell.

Total Heating Surface of Boiler 68 sq. ft. Is forced draught fitted No. Coal or Oil fired oil.
No. and Description of Boilers One vertical wet uptake donkey boiler. Working pressure 80 lbs \square "
tested by hydraulic pressure to 160 lbs \square " Date of test 8-12-27 No. of Certificate 1232.

Area of Firegrate in each Boiler oil burning No. and Description of safety valves to each boiler One spring loaded.
Area of each set of valves per boiler { per rule 3.14 \square "
as fitted 3.97 \square " Pressure to which they are adjusted 82 lbs \square " fitted with easing gear Yes.
state whether steam from main boilers can enter the donkey boiler Yes. 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'-6" Is the base of the boiler insulated Yes. Largest internal dia. of boiler 4'-6" Height 10'-6"

Shell plates: Material O.H. steel. Tensile strength 28-32 tons \square " Thickness 9/16"

Are the shell plates welded or flanged No. Description of riveting: circ. seams { end Single
inter. Single. long. seams D.R. lapped.
Dia. of rivet holes in { circ. seams 15/16"
long. seams 15/16" Pitch of rivets { 2 7/8"
27/8" Percentage of strength of circ. seams { plate 56
rivets 47.2 of Longitudinal joint { plate 67.3
rivets 70.0
combined.

Working pressure of shell by rules 192 lbs \square " Thickness of butt straps { outer
inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished partial spherical Material O.H. steel.
Tensile strength 26-30 tons Thickness 9/16" Radius 4'-0" Working pressure by rules 138 lbs \square "

Description of Furnace: Plain, spherical, or dished crown dished crown. Material O.H. steel. Tensile strength 26-30 tons \square "
Thickness 9/16" External diameter { top 3'-6"
bottom 3'-10" Length as per rule 39 9/16" Working pressure by rules 195 lbs \square "

Are stays fitted with nuts or riveted over

Diameter of stays over thread Radius of spherical or dished furnace crown 3'-3" Working pressure by rule 120 lbs \square "

Thickness of Ogee Ring 1 1/16" Diameter as per rule { D 4'-4 7/8"
d 3'-10" Working pressure by rule 170 lbs \square "

Combustion Chamber: Material Tensile strength Thickness of top plate

Diameter 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

Stays to combustion chamber tops: Material 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

Stays 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

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Foundation

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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 11" x 15" Section of compensating ring 17 1/2" x 9 1/6" No. of rivets and diam
 of rivet holes 46 15/16" Outer row rivet pitch at ends 7" Depth of flange if manhole flanged 3"
Uptake: External diameter 1'-3 7/8" Thickness of uptake plate 7/16"
Cross Tubes: No. Two External diameters { 9 7/8" Thickness of plates 7/16"

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with YES.

The foregoing is a correct description,

L. Kar Manufacture

Dates of Survey { During progress of work in shops - From 26-9-27 to 8-12-27 Is the approved plan of boiler forwarded herewith 19-9-27
 while building { During erection on board vessel - From 10-2-28 to 24-7-28 (If not state date of approval.)
 Total No. of visits 19.

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

The boiler described above has been constructed under special survey of tested material, the workmanship is good & the scantlings agree with the approved plan.
 The boiler has been securely fitted aboard & tested under steam with satisfactory results.

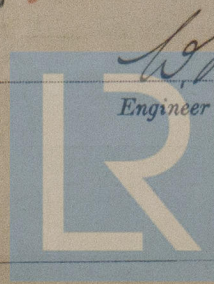
In my opinion the vessel is entitled to the record of D.B. (80 lbs) 4-28 in the Register Book.

Survey Fee ... £EN 67:- : When applied for, 19
 (Travelling Expenses (if any) £ - : - : When received, 6/9/28
 Included in full expenses.

Committee's Minute FRI. 31 AUG 1928

Assigned See Minute on

Kobe Rpt 6195

 L. Kar
 Engineer Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation