

REPORT ON BOILERS.

No. 6536

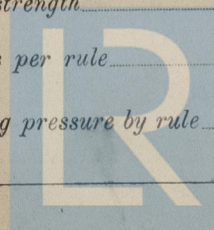
Received at London Office

18 JUN 1929

Writing Report 28th May 1929 When handed in at Local Office 19 Port of Kobe
 in Survey held at Yama Date, First Survey Jan. 15th 1929 Last Survey 15 May 1929
 on the Steel Single Screw Motorship "TENSAN MARU" (Number of Visits 14) Gross Tons ✓
 at Yama By whom built Mitsui Bussan Kaisha Yard No. 159 When built 1929
 made at Copenhagen By whom made Burmeister + Wain Engine No. 1581 When made 1929
 made at Yama By whom made Mitsui Bussan Kaisha Boiler No. 159 When made 1929
Daisen Kisen Kaisha Port belonging to Daisen

VERTICAL DONKEY BOILER.

at Yama By whom made Mitsui Bussan Kaisha Boiler No. 159 When made 1929 Where fixed E.R. Star side
 Manufacturers of Steel Asano Ship Building Co.
 Heating Surface of Boiler 68 sq. ft. Is forced draught fitted No Coal or Oil fired oil
 and Description of Boilers one vertical wet uptake donkey boiler Working pressure 100 lb/sq. in.
 by hydraulic pressure to 200 lb/sq. in. Date of test 1-4-29 No. of Certificate 1936
 of Firegrate in each Boiler oil-burning No. and Description of safety valves to each boiler one, spring loaded
 of each set of valves per boiler { per rule 3.14 sq. ins. as fitted 3.97 sq. ins. Pressure to which they are adjusted 102 lbs Are they fitted with easing gear yes
 whether steam from main boilers can enter the donkey boiler ✓ Smallest distance between boiler or uptake and bunkers
4 Is oil fuel carried in the double bottom under boiler No Smallest distance between base of boiler and tank top plating
5' 3" - 4" Is the base of the boiler insulated No Largest internal dia. of boiler 4'-6" Height 10'-6"
 plates: Material O.H. Steel Tensile strength 28-32 tons/sq. in. Thickness 9/16"
 shell plates welded or flanged No Description of riveting: circ. seams { end Single inter. Single long. seams D.R. lapped
 of rivet holes in { circ. seams 15/16" Pitch of rivets { 2 1/8" Percentage of strength of circ. seams { plate 50 of Longitudinal joint { plate 67.3
 long. seams 15/16" 2 7/8" rivets 47.2 rivets 70
 ing pressure of shell by rules 192 lbs/sq. in. Thickness of butt straps { outer ✓ inner ✓
 Crown: Whether complete hemisphere, dished partial spherical, or flat Dished partial spherical Material O.H. Steel
 strength 26-30 tons/sq. in. Thickness 9/16" Radius 4'-0" Working pressure by rules 138 lb/sq. in.
 Description of Furnace: Plain, spherical, or dished crown Dished crown Material O.H. Steel Tensile strength 26-30 tons/sq. in.
 Crown 9/16" Shell 1/16" External diameter { top 3'-6" Length as per rule 39 9/16" Working pressure by rules 195 lb/sq. in.
 bottom 3'-10"
 of support stays circumferentially ✓ and vertically ✓ Are stays fitted with nuts or riveted over ✓
 ter of stays over thread ✓ Radius of spherical or dished furnace crown 3'-0" Working pressure by rule 129 lb/sq. in.
 ss of Ogee Ring 1 1/16" Diameter as per rule { D 4'-4 7/8" Working pressure by rule 170 lb/sq. in.
 d 3'-10"
 astion Chamber: Material ✓ Tensile strength ✓ Thickness of top plate ✓
 s if dished ✓ Working pressure by rule ✓ Thickness of back plate ✓ Diameter if circular ✓
 as per rule ✓ Pitch of stays ✓ Are stays fitted with nuts or riveted over ✓
 ter of stays over thread ✓ Working pressure of back plate by rules ✓
 Plates: Material { front ✓ Tensile strength { ✓ Thickness { ✓ Mean pitch of stay tubes in nests ✓
 back ✓
 orising shell, Dia. as per rule { front ✓ Pitch in outer vertical rows { ✓ Dia. of tube holes FRONT { stay ✓ BACK { stay ✓
 back ✓ plain ✓ plain ✓
 alternate tube in outer vertical rows a stay tube ✓ Working pressure by rules { front ✓ back ✓
 s to combustion chamber tops: Material ✓ Tensile strength ✓
 and thickness of girder at centre ✓ Length as per rule ✓
 e 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 11" x 15" Section of compensating ring 1 7/4" x 9/16" No. of rivets and
 of rivet holes 40 15/16" Outer row rivet pitch at ends 4" 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,

J. V. Kar

Dates of Survey { During progress of work in shops - 1929 Jan 15, 22 Feb. 27, 13 Mar. 4, 20 Is the approved plan of boiler forwarded herewith Dec 21
 while building { During erection on board vessel - 1929 April 11, 23 May 2, 6, 10, 15 (If not state date of approval.)
 Total No. of visits 14

GENERAL REMARKS

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

The boiler referred to herein has been constructed under special survey & complies with the Rule requirements approved plan. The materials & workmanship employed are good.

The boiler has been securely installed on board & examined under working conditions. The safety valve has been adjusted under steam as stated above.

In our opinion the vessel is now entitled to the record of D.B. (10) in the Register Book.

Survey Fee ... £ 68 =

When applied for, 28th Aug 1929

Travelling Expenses (if any) £ - : -

When received, 26.8.19

Included with Hull Expenses.

L. R. Miller & Co. Bel
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

FRI. 28 JUN 1929

Assigned see Minute on
Kobe Rps 6536



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