

DONKEY

REPORT ON BOILERS

No. 6546

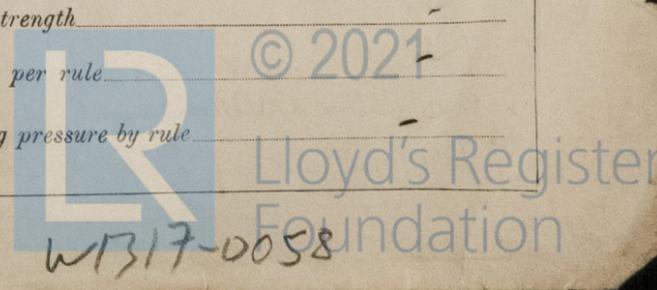
12 AUG 1929

Received at London Office

Date of writing Report 11th July 1929 When handed in at Local Office 11th July 1929 Port of Kobe
 No. in Survey held at Tama Date, First Survey 15th Jan. 1929 Last Survey 18th July 1929
 7. Book on the Steel single screw motorship "SENSAN MARU" (Number of Visits 14)
 Tons Gross Net
 Built at Tama By whom built Mitsui Bussan Kaisha Yard No. 160 When built 1929
 Engines made at Copenhagen By whom made Burmester + Wain Engine No. 1584 When made 1929
 Boilers made at Tama By whom made Mitsui Bussan Kaisha Boiler No. 160 When made 1929
 Owners Daisen Kisen Kaisha Port belonging to Daisen

VERTICAL DONKEY BOILER.

Made at Tama By whom made Mitsui Bussan Kaisha Boiler No. 160 When made 1929 Where fixed Starboard side E.R.
 Manufacturers of Steel Asano Shipbuilding Co
 Heating Surface of Boiler 68 sq. ft. Is forced draught fitted No Coal or Oil fired oil
 Description of Boilers One vertical wet uptake donkey boiler Working pressure 100 lbs.
 Tested by hydraulic pressure to 200 lbs/10" Date of test 15.4.29 No. of Certificate 1973
 Area of Firegrate in each Boiler oil burning No. and Description of safety valves to each boiler one spring loaded
 Weight of each set of valves per boiler per rule 3.14 0" as fitted 3.07 0" Pressure to which they are adjusted 103 Are they fitted with easing gear yes
 Whether steam from main boilers can enter the donkey boiler no Smallest distance between boiler or uptake and bunkers 15 ft.
 Is oil fuel carried in the double bottom under boiler no Smallest distance between base of boiler and tank top plating 4'-6"
 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/10" Thickness 9/16"
 Are the shell plates welded or flanged No Description of riveting: circ. seams { end single long seams D.R. Capped
 { inter single }
 Diameter 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 40
 { combined 40 }
 Working pressure of shell by rules 192 lbs/10" Thickness of butt straps { outer 9/16"
 { inner 9/16" }
 Crown: Whether complete hemisphere, dished partial spherical, or flat Dished partial spherical Material O.H. Steel
 Tensile strength 26-30 T/10" Thickness 9/16" Radius 4'-0" Working pressure by rules 138 lbs/10"
 Description of Furnace: Plain, spherical, or dished crown Dished crown Material O.H. Steel Tensile strength 26-30 T/10"
 Thickness Crown 9/16" Shell 1/16" External diameter { top 3'-6" Length as per rule 39 7/16" Working pressure by rules 195 lbs/10"
 { bottom 3'-10" }
 Are stays fitted with nuts or riveted over no
 Radius of spherical or dished furnace crown 3'-0" Working pressure by rule 129 lbs/10"
 Thickness of Ogee Ring 1 1/16" Diameter as per rule { D 4'-4 7/8" Working pressure by rule 140 lbs/10"
 { a 3'-10" }
 Combustion Chamber: Material O.H. Steel Tensile strength 26-30 T/10" Thickness of top plate 1/16"
 Working pressure by rule 129 lbs/10" Thickness of back plate 1/16" Diameter if circular 3'-10"
 Pitch of stays 12" Are stays fitted with nuts or riveted over no
 Working pressure of back plate by rules 129 lbs/10"
 Plates: Material { front O.H. Steel Tensile strength { 26-30 T/10" Thickness { 1/16" Mean pitch of stay tubes in nests 12"
 { back O.H. Steel }
 Diameter of tube holes FRONT { stay 1 1/2" BACK { stay 1 1/2"
 { plain 1 1/2" } { plain 1 1/2" }
 Working pressure by rules { front 129 lbs/10"
 { back 129 lbs/10" }
 Material O.H. Steel Tensile strength 26-30 T/10"
 Length as per rule 39 7/16"
 Working pressure by rule 129 lbs/10"
 No. and pitch of stays in each 12" Working pressure by rule 129 lbs/10"



DONKEY

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 1/4" x 9/16" No. of rivets and diameter of rivet holes 40 - 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. 2/100 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. W. Mas' Manufacturer.

Dates of Survey { During progress of work in shops - - } 1929 Jan 15, 22 Feb. 2, 7, 13 Mar 4, 30 April 1 Is the approved plan of boiler forwarded herewith 21-12-28 (If not state date of approval.)

while building { During erection on board vessel - - } 1929 May 30 June 5, 13, 20, 26 July 1 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.

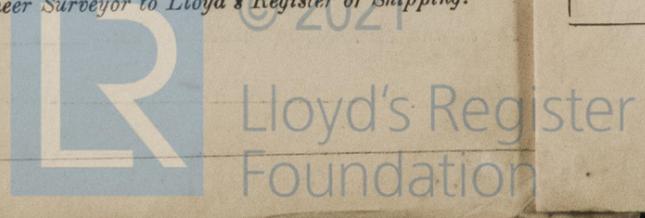
In our opinion the vessel is now entitled to the record of D.B. (100 lbs) in the Register Book

Survey Fee £68 : - : } When applied for, July 12th 1929

Travelling Expenses (if any) £ ✓ : : } When received, 28.10.1929

W. Kimber & Chas Bell
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 16 AUG 1929
 Assigned See Minute on Kobe Rpt 6576



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