

*State if Report is sent on the Machinery of the Vessel.* Yes

No. 7.57

Last Survey 28th November 193010

**State Type** (*Full Scantling, Complete Superstructure*  
*with or without Tonnage Openings*)

Complete Superstructure Vessel  
without tonnage openings.

State Type of Erections **Forecastle.**

**TONNAGE under** } **5,719.05**  
**Tonnage Deck...** }

CLASS  100A1.

State if with freeboard } **Yes**  
as condition of Class } .....

Built at Nagasaki.

Do. of space or spaces } 2,093.11  
between Tonnage Dk.  
and Upper Dk.

**Length** from fore part of stem to after part of stern }  
post on summer L.W.L. See Sec. 3 (1a) } L 445.0

Launched 9th Sept.1930. Yard No. 474.

<b>Total</b>	7,812.16
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**Breadth** (*greatest moulded*) .....B 60.5

*Builders* Nagasaki Works,  
Mitsubishi Zosen Kaisha, Ltd.

**Gross Tonnage** 8,365.28

**Depth,** at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) ..... D 40.75

Owners **Osaka Shosen Kabushiki Kaisha**

**Register Tonnage** 5,046.44

1st Longitudinal Number (L x D).....= 18134

Managers.....1

(Where necessary to be entered in Reg. Book.)

**REGISTERED DIMENSIONS.**  
FEET.

**Framing Depth "d,"** at middle of length. See } 19,42  
Sec. 3 (1d) .....

Residence Osaka.

length 445.0

**Proportions**—Depth to Length—Uppermost con-

Port of Registry Osaka.

width 60.5

Do. Long Bridge to top  
of keel

*If surveyed while building, afloat, or in dry dock*

40.75

**Draught Moulded** ..... 28'-0.36

While Building.

FRAMES, DOUBLE BOTTOM AND BEAMS.

		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.				INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	
AMES, Spacing amidships .....		33				Bracket Floors, Frame .....		B.A.	7	3 1/2	.34
" " from 3/4 length to Collision } bulkhead.....}		27				" " Reversed Frame .....		"	6	3	.40
" " in peaks.....		24				" " Vertical Struts .....		C.H. B.A.	10x3 1/2 x 3 1/2	42	
									6	x 3	.40
DE FRAMING.		11	3 1/2	.58	extends to U.Dk web cut down to form 9x3 1/2 x 68L between 3rd & 2nd decks, and 7x3 1/2 x 58L between 2nd deck and U.Dk.	Centre Girder, depth and thickness amidships			46	.62-	.48
Frame Amidships, Angle <del>C or C</del> [						" " top Angles .....		D.A.	3 1/2 x 3 1/2	x .56-	.52
" " Extends up to .....						" " bottom Angles .....		"	5x5	x .66-	.60
Reversed Frame Amidships, Angle .....		/				Side Girders, No. each side and thickness .....			2	.44.	.48 where flanged
" " Extends up to...		/				Margin Plate depth (excl. of flange) and thickness .....			40 1/2	.56	
Depth of Framing Girder .....		11				" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem .....			5	5	.48
Frames in Uppermost Continuous 'tween Decks, Angle <del>C or C</del> [		7	3 1/2	.58		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem .....		DA	5	5	.48
" " Second 'tween Decks, Angle <del>C or C</del> [		9	3 1/2	.58		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....			.48	continuous.	
" " Third " " " "		/				" " Gussets, spacing and scantling forward 1/4 len. from stem.....			Flat tank.		
Framing in Peaks, Angle <del>C or C</del> [		8	3 1/2	.48		Tank Side Brackets, height above base line at toe of Frame and thickness			82	above top of keel	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....		7/8	5 1/2			INNER BOTTOM PLATING.					
State if Frame Joggled .....		Yes				Breadth and thickness of Middle Line Strake ..			56	.56-	.46
LIFTING ARRANGEMENTS (Sec. 7), state system and particulars		Deep frame arrangement 12x3 1/2 x 62 B.A. extends to U.Dk or F'cle deck web cut down to form 8x3 1/2 x 62A between U.Dk. and F'cle deck.				Thickness of remainder in Holds .....			.48-	.42	
LENGTHENING OF BOTTOM FORWARD. State Particulars .....		7x3 1/2 x .34 BA between 3rd to U.Dk at frame 152, Add. int side girders fitted 40" apart and 3 ht. extending as far as practicable. 3 strakes of shell plating next to keel maintained .67 to coll. bulkhead.				Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room ?.....			Yes		
CLE BOTTOM.						BEAMS.					
Floors, Depth and thickness at mid-line in Holds .....						Uppermost Continuous Deck, amidships			8x3x3x.34	(141-151, 161-172)	
Height of Brackets at side above base line at toe of frame .....						" " " " " " " "			8x3x3x.48	(152-159)	
Middle Line Keelson, on Floors, Angles, [ or [						" " " " " " " "			8x3x3x.42		
" " " Through Plate or Intercoastal Plate...						" " " " " " " "			8x3x3x.40	(69-84)	
" " " Foundation Plate on Floors .....						" " " " " " " "			8x3x3x.36	(115-132, 28-44)	
" " " Flat Plate Keel Angles						Spacing .....			33		
Keelsons, No. each side .....						Second Deck, amidships, Angle, [ or [			8x3x3x.48	(141-172)	
" thickness of Intercoastal Plate...						Spacing.....			8x3x3x.36	(68-85)	
" Angles .....						Third Deck, amidships, Angle, [ or [			8x3x3x.38	(50-62)	
CLE BOTTOM.						Spacing.....			33		
Solid Floors, thickness and spacing .....		.44				Fourth Deck, amidships, Angle, [ or [			8x3x3x.48	(89-100)	
" " Are Frame and Reversed Frame joggled ?.....		No				Spacing.....			8x3x3x.36	(65-87)	
Bracket Floors, breadth and thickness at middle line.....		34	.44			Poop Deck, Angle, [ or [					
" " breadth and thickness at margin plate.....		34	.44			Spacing.....					
						Bridge Deck, Angle, <del>C or C</del> [			6	x 3	.36
						Spacing.....			alt frames	(about)	
						Forecastle Deck, Angle, [ or [			8x3x3x.42		
						Spacing .....			24	x 3	.37



# PILLARS AND DECKS.

PILLARS, No. of Rows.....	INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.
Stringer Plate, breadth and thickness in way of Bridge .....	50 1/2	.44					
Thickness of Plating abreast Deck openings in way of Wells .....	.40	.34					
Thickness of Plating abreast Deck openings in way of Bridge .....	.40						
Thickness of Plating within line of openings.....	.34	.32					
If Sheathed, material and thickness .....	/						
<b>Third Deck.</b>							
Stringer Plate, breadth and thickness.....	.34						
If Plated, state thickness.....	.42						in way of deep tank
<b>Fourth Deck.</b>							
Stringer Plate, breadth and thickness.....	.42						in way of deep tank
If Plated, state thickness .....	/						
<b>Poop Deck.</b>							
Stringer Plate, breadth and thickness .....	/						
Plating, Sheathing, material and thickness ...	/						
<b>Bridge Deck.</b>							
Stringer Plate, breadth and thickness.....	30	.32					
Plating, Sheathing, material and thickness ...	.25	.20					Tie plate 3" O.P. where exposed 2 1/2" O.P. inside house.
<b>Forecastle Deck.</b>							
Stringer Plate, breadth and thickness.....	/						
Plating, Sheathing, material and thickness ...	.36						

## SHELL PLATING.

SCANTLINGS.						RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? No.			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL .....	55	.85	.75	.75		Double	1	4	4-3	1	4"-3½"	
„ DBLG. (if any)		/				/			/			
BOTTOM PLATING, No. of Strakes .....5.....)	.67 .67 .52 Three strakes next to keel maintained .67 to coll. bulkhead.					Double	7/8	3½	4-3	7/8	3½"-3½"	
BILGE PLATING, No. of Strakes .....1.....)		.67	.52	.52		"	"	"	"	"	"	
SIDE PLATING, No. of Strakes .....)		.65	.49	.49		"	"	"	3	"	"	
UPPER DECK, Sheer-strake in Wells.....)	.69	.78	.49	.49		"	1	4	4-3	1	4"-3½"	
UPPER DECK, Sheer-strake in Bridge ...)		/				/			/			
STRAKE BELOW Sheer-strake in Wells.....)		.65	.49	.49		Double	7/8	3½	4-3	7/8	3½"-3½"	
STRAKE BELOW Sheer-strake in Bridge ...)		/				/			/			
POOP SIDE PLATING.....)		/				/			/			
BRIDGE SIDE PLATING ...)		/				/			/			
FORECASTLE SIDE PLATING			.44			1	7/8	3	1	7/8	2 5/8"	

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c) .....	1.
Deck next below .....	7.
As per Rule .....	7.

For particulars of remaining bulkheads please see approved plan.	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper Deck .....	160	.28	.26	24	
" " Second .....	160	.32	.28	6x3x.38BA 24	
" " Third .....	110	.28	.26	6x3x.38BA 30	
" " Holds .....	110	.48	.30	10x3x.46C 30	
COLLISION " (in Hold) .....	160	.56	.34	7x3x.34BA 24 Semibox beam 11	
AFTER PEAK " .....	10	.70	.30	6x3x.36BA 24	

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar .....	/			
STEM .....	R.S.	10 1/2 x 2 5/8	Larnarkshire Steel Co.	
STERN FRAME { Propeller .....	C.S.	See plan.	Kobe Stl Wks.	
" { Rudder .....	"	"	"	
RUDDER—A x D .....		773.50		
Speed of Vessel .....		14 1/2		
RUDDER mainpiece at head ...	F.S.	14	Nippon Seikosh Co. Muroran.	
" " heel ...		11		
" how constructed .....	Built.	See approved plan.		
" double or single plate .....	Double	.50		
" coupling, vertical or horizontal .....	Vertical.	36"x33"		

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Open Hearth Process.			
	Larnarkshire stl Co. David Colville & Sons Ltd. Consett Iron Co. Frodingham Iron & Steel Wks. Bolckow Vaughan & Co. The steel Co of Scotland. Pease & Partners Ltd. Dorman Long & Co. Mannesmannrohren-Werke Abb. Schulz Knaudt of Huckingen. Vereinigte Stahlwerke A.G. Hamborn. Vereinigte Stahlwerke A.G. Horder Verein of Hoerde. Vereinigte Stahlwerke A.G. Hutte R.M. Meiderich. Has the Steel been tested as required by the Rules? Yes. Verinigte Staklerke A.G. Niederrheinische Hutte. Vereinigte Staklwerke A.G. Stahlundwalzwerke.			



EQUIPMENT No. 46196.

LETTER dt

ANCHORS. 3B. 1S.

Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
1414	1st Bower ...	Cwts. qrs. lbs. 80 3 16	Cwts. qrs. lbs. /	Tons. cwt. qrs. lbs. 59 0 0 0	Cwts.	Union.	Dortmunder Union of Dortmunder	Dortmunder 21-1930 K.H.
1413	2nd " ...	80 2 17		59 0 0 0		"	"	"
1415	3rd " ...	80 0 25		59 0 0 0		"	"	"
	Collective weight.	241 3 2			232-0-0			
1416	Stream .....	23 2 5	6 1 12	23 11 3 14		Stock	"	"

## CHAIN CABLES.

## HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.	Length and Size per Table 53.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.	Breaking Test of Steel Wire.	Length and Size per Table 53.
	Length. Diam.	Statu- Break- ing.	Supplied. Per Rule.	Length. Diam.					Length. Cir.	Tons.	Length. Cir.
1706	310 2 1/2	112 5 10	1038-3-5 940	300 2 8 16	S.I.	Osaka Chain Works.	Osaka. 8 & 11-4-30 Y.Jo.	SF TOWLINE	130 5 1/2	88.0	130 6 S.W.
		157 5 10						HAWSERS & WARPS	2-100 8		2-100 8
									2-100 8		2-100 8
Iron Stream Chain or Steel Wire	120 4 3/4	65.5	S.F.	120 5 1/4	S.W.				1-100 3 1/2	26.00	

Steering Gear, Steam Brown Bros' Electro Hydraulic.

Steering Gear, Hand Yes

Boats 2- 26'-0" Lifeboats.

Boats 1- Tenma.

Steering Chains, Size and Test /

Windlass Clarke Chapman.

Ceiling in Holds, thickness and material 2 1/2" Soft wood.

Cargo Battens, thickness, material and spacing 6"x 2" Soft wood 7" apart.

Cargo Hatchways.-(Upper Deck) Plates &amp; angles &amp; wood covers. Thickness of Hatches 3" O.P.

Size of No. 1 Hatchway (Forward) 27'0"x20'0" No. 2 25'9"x20'0" No. 3 25'9"x20'0" No. 4 24'9"x20'0" No. 5 33'0"x20'0" No. 6 24'9"x20'0"

Number of Shifting Beams and/or Fore and Afters No.1-6. No.2-7. No.3-7. No.4-4. No.5-6. No.6-4.

NAGASAKI WORKS, MITSUBISHI ZOSSEN KAISHA, LTD.

Builder's Signature

GENERAL MANAGER.

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel Yes (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo Yes The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built in accordance with the Rules and Approved plans.

The Materials and workmanship are good.

The forward and aft peak tanks, deep tanks, tunnel side tanks and double bottom tanks, weather decks gutterways and O.T. &amp; W.T. Bulkheads have been satisfactorily tested.

The freeboard has been verified and the freeboard marks have been "cut in" on the vessel's side.

Oil is carried as fuel in double bottom tanks and tunnel side tanks and as cargo in deep tank.,

Flash point above 150° F.

Note:- Fitted for carrying oil 11.30 F.P. above 150° F in Deep Tank. Owners desire to have this Special notation made in the Register Book.

Vessel has Cruiser stern.

Sister Vessels "Kinai Maru" Nag.Rpt No.1737. "Tokai Maru" Nag.Rpt No.1743. and "Sanyo Maru" Nag.Rpt No.1750.

Plans sent under separate cover of:- Midship Section. Construction profile & deck. W.T. & O.T. Bulkhead. Wing fuel oil tank top and bow and stern construction. W.S. Pillar & pillar girders. Shell expansion. Stern frame & stern cut up. Shaft bracket. Rudder. Aux. diesel engine seat. Pumping plan and Steel Invoices. Certificates of Castings and Forgings herewith.

The amount of Entry Fee ..... £ ¥ :110:00

Fees applied for,

1. 12. 1930

Special Survey Fee... £ " 6137:00

Freeboard. " 210:00

Special Expenses, if any (Kobe) 49:00

Received by me,

8. 12. 1930

I am of opinion the Vessel should be Classed \*100AI with freeboard

State whether the Vessel has been built under Special Survey Yes

H+M

Certificate to be sent to Nagasaki.

Date of issue 6/1/31

Signature

Surveyor to Lloyd's Register of Shipping.

Committee's Minute/ TUE. 6 JAN 1931

Character assigned

+ 100AI

With freeboard

Fitted for carrying oil (11.30) F.P. above 150° F. in Deep Tanks

Lloyd's arch. + Lmb 11.30 oil Sys.

C.L. L.B. 100th Elec. Lt

The Surveyor is requested not to write on or below the Committee's Minute.



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Lloyd's Register Foundation

01774



GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

Particulars of Drop Test of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	52-2-27	J.Q.	14-1-30.	Anchor Cert.No.	1414.
	2nd "	52-0-21	"	"	"	1413.
	3rd "	51-3-16	"	"	"	1415.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop / ft., R.Q.D. / ft., Bridge / ft., Forecastle 40.7 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated /

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 3 dks. stl. U.Dk. part W.S.

Official No. 36396. ; Signal Letters V.H.M.T. Is bottom of Vessel coated with cement / if not give particulars of composition Fore and aft peak tanks and F.W.tanks cement washed. F.O.tanks not coated.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	126.5	225.49	Fore peak tank,	25.27	95.79
Double bottom, under Engines and Boilers,	/	/	After peak tank,	20.56	88.79
Double bottom, if under Engines only,	63.25	429.33	Deep tank, aft, Wing tanks (P & S).	104.5	977.66
Double bottom, if under Boilers only,	/	/	Deep tank, forward,	35.75	1184.51
Double bottom, forward,	183.5	640.61	Other tanks, if fitted,		
	Total capacity of double bottom	1295.43	(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 94

Date 16th April 1929  
LONDON.

Dates of Surveys held while building

1930. Feb. 24 Mar 4.6.18.21.24.26.27.28.29 Apr 11.16.21.26 May 7.10.15.19.  
24.28.31 June 5.6.12.18.24.26.30 July 215.9.17.22.23.24.25.28.30 Aug 1.4.  
6.7.9.14.15.16.18.19.21.22.25.26.27.29 Sep 2.3.4.6.9.17.24 Oct 2.10.14.16.  
Nov 6.10.13.14.18.20.26.28.

Lloyd's Register  
Foundation  
Total No. of Visits 73.