

STEEL STEAMER or MOTORSHIP.

Received at London Office 18 AUG 1930

State if Report has been sent on the Freeboard of the Vessel **Yes (Kobe).**State if Report is sent on the Machinery of the Vessel **Yes.**Date of completion of report **21st July, 1930.**Port of **NAGASAKI.**No. **1737.**Survey held at **NAGASAKI.**Date First Survey **1st October 1929.**Last Survey **23rd June, 1930.**On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) **Steel Twin Screw Motor Ship "KINAI MARU".**State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) **Complete Superstructure Vessel, without tonnage openings.** State Type of Erections **Forecastle.**TONNAGE under Tonnage Deck... **5,719.05**CLASS ***100AI.**State if with freeboard as condition of Class **Yes**Built at **Nagasaki.**Do. of space or spaces between Tonnage Dk. and Upper Dk. **2,093.11**Length from fore part of stem to after part of stern past on summer L.W.L. See Sec. 3 (1a) **L 445.0**Launched **1st April 1930** Yard No. **471.**Breadth (greatest moulded) **B 60.5**Builders **Nagasaki Works, Mitsubishi Zosen Kaisha, Ltd..**Total **7,812.16**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.**Tonnage **8,365.28**1st Longitudinal Number (L x D) = **18134**Managers **/**Net Tonnage **5,046.44**2nd Numeral L x (B + D) = **45056**

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

REGISTERED DIMENSIONS. FEET.

Framing Depth "d," at middle of length. See Sec. 3 (1d) **19.42**Residence **Osaka.**Length **445.0**Proportions—Depth to Length—Uppermost continuous deck to top of keel **10.92**Port of Registry **Osaka.**Breadth **60.5**Do. Long Bridge to top of keel **/**

If surveyed while building, afloat, or in dry dock

Depth **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.
FRAMES, Spacing amidships	33		Bracket Floors, Frame	B.A. 7 3 1/2 .34	
" " from 1/2 length to Collision bulkhead	27		" " Reversed Frame	B.A. 6 3 .40	
" " in peaks	24		" " Vertical Struts	{ C.H. 10x3 1/2 x 3 1/2 .42 B.A. 6 x 3 .40	
FRAMING.			Centre Girder, depth and thickness amidships	46 .62-.48	
Frame Amidships, 11x3 1/2 [	11 3 1/2 .58	extends to U.Dk. web, cut down to form 9x3 1/2 .58L between 3rd & 2nd Dks, and 7x3 1/2 .58L between 2nd dk and U.Dk.	" " top Angles	D.A. 3 1/2 x 3 1/2 .56-.52	
" " Extends up to	/		" " bottom Angles	D.A. 5x5x.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 15% from stem	5 5 .48	
Frames in Uppermost Continuous 'tween Decks, Angle, 10x3 1/2	7 3 1/2 .58		" " Vertical Angle to Tank side Bracket forward 15% from stem	5 5 .48	
" " Second 'tween Decks, Angle, 10x3 1/2	9 3 1/2 .58		" " Gussets, spacing and scantling abaft 1/2 len. from stem	.48 continuous	
" " Third " " "	/		" " Gussets, spacing and scantling forward 1/2 len. from stem	Flat tank	
Framing in Peaks, Angle or [	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	X (as letter)		INNER BOTTOM PLATING.		
State if Frame Joggled	Yes		Breadth and thickness of Middle Line Strake	56 .56-.46	
PLATING ARRANGEMENTS (Sec. 7), state system and particulars	Deep frame arrangement 12x3 1/2 .62 B.A. extends to U.Dk. or Peckle Dk. web cut down to form 8x3 1/2 .62A between U.D. & Peckle dk. 7x3 1/2 .34 BA between 3rd to U.D. at frame 152.		Thickness of remainder in Holds	.48-.42	
LENGTHENING OF BOTTOM FORWARD. State Particulars	Add. int. side girders fitted 4-0 apart & 1/2 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	
DOUBLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships	8x3x3x.48 (141-151) 8x3x3x.42 (152-159)	
Height of Brackets at side above base line at toe of frame			" " 10x3 1/2 [or [	8x3x3x.40 (69-84) 8x3x3x.36 (115-132)	
Middle Line Keelson, on Floors, Angles, [or [			" " 10x3 1/2 [or [	33 28-44)	
" " Through Plate or Intercoastal Plate			Spacing	8x3x3x.48 (141-172)	
" " Foundation Plate on Floors			Second Deck, amidships, Angle, [or [	8x3 1/2 x 3 1/2 .48	
" " Flat Plate Keel Angles			Spacing	8x3x3x.36 (69-85) 8x3 1/2 x 3 1/2 .38 (50-62)	
Keelsons, No. each side			Third Deck, amidships, Angle, [or [	33	
" thickness of Intercoastal Plate			Spacing	8x3 1/2 x 3 1/2 .48 (89-100) 11 x 3 1/2 .46 (65-87)	
" Angles			Fourth Deck, amidships, Angle, [or [
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing	.44		Poop Deck, Angle, [or [
" " Are Frame and Reversed Frame joggled?	No		Spacing		
Bracket Floors, breadth and thickness at middle line	34 .44		Bridge Deck, Angle, 10x3 1/2	6 x 3 .36	
" " breadth and thickness at margin plate	34 .44		Spacing	alt frames (about)	
			Forecastle Deck, Angle, 10x3 1/2	8x3x3x.42	
			Spacing	24 x 27	

PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....			Stringer Plate, breadth and thickness in way of Bridge	50 1/2 .44	
„ in 'tween Decks, Size and Spacing.....			Thickness of Plating abreast Deck openings in way of Wells .....	.40 - (34)	
„ „ „ „ „	Widely Spaced		Thickness of Plating abreast Deck openings in way of Bridge .....	.40	
„ in Holds „ „	Pillars.		Thickness of Plating within line of openings...	.34-.32	
„ „ „ „ „			If Sheathed, material and thickness	/	
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....			Stringer Plate, breadth and thickness.....	.34	
Plating, thickness of			If Plated, state thickness.....	.42 in way of Deep tank.	
STRINGERS AND DECKS.			Fourth Deck.	.30	
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	.42 in way of Deep tank.	
Stringer Plate, breadth and thickness in Wells			If Plated, state thickness	/	
„ „ „ „ in way of Bridge	64 .66		Poop Deck.	/	
„ Angle in Wells	6 6 .66		Stringer Plate, breadth and thickness	/	
Thickness of Plating abreast Deck openings in way of Wells .....	.52 at cargo hatchway		Plating, Sheathing, material and thickness ..	30 .32	
Thickness of Plating abreast Deck openings in way of Bridge .....	.49 at casing		Bridge Deck.	.25-.20 Tie plate	
Thickness of Plating within line of openings...	.42-.36		Stringer Plate, breadth and thickness.....	3" O.P. where exposed	
If Sheathed, material and thickness	3" O.P. where exposed in way of B.Dk.		Plating, Sheathing, material and thickness	2 1/2" " inside house.	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	2 1/2" O.P. inside deck house.		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.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.				Diam.	Spacing or. to or.		Diam.	Spacing or. to or.	
	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		"	7/8	3½	4-3	7/8	3½"-3½"		
BILGE PLATING, No. of Strakes)		.67	.52	.52	Three strakes next to keel maintained .67 to coll. bulkhd.	"	"	"	"	"	"		
SIDE PLATING, No. of Strakes)		.65	.49	.49		"	"	"	3	"	3½		
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		"	7/8	3½	4-3	7/8	3½"-3½"		
STRAKE BELOW Sheer-strake in Bridge ...)		/							/				
POOP SIDE PLATING		/							/				
BRIDGE SIDE PLATING ...		/							/				
FOREC'TLE SIDE PLATING			.44			1	7/8	3	1	7/8	2 5/8"		

WATERTIGHT BULKHEADS.

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

For particulars of remaining bulkheads please see approved plan.	Plating Thickness.	STIFFENERS.	
		VERTICAL.	HORIZONTAL.
		Scantlings, Spacing.	Scantlings/ Spacing.
	160 .28-.26	24	
	6x3x.38BA.		
MIDSHIP BULK'D, Upper two decks	160 .32-.28	24	
	4x3x.34A	30	
" " Second	110 .28-.26	30	
	6x3x.38BA		
" " " "	110 .28-.26	30	
	5x3x.34A		
" " Holds	110 .48-.30	10x3x.34x.46C	30
	7x3x.34BA		
COLLISION " (in Hold)	160 .56-.34	10x3x.34x.44C	24
	70-.80	8x3x.36BA	24
AFTER PEAK " "	10 .70-.80	8x3x.36BA	24

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	/			
STEM		10 ⁵ x 2 ⁷ / ₈	Larnarkshire Steel Co.	
STERN FRAME {	Propeller box	See C.S. Approved Works.	Kobe steel	
	Rudder "	C.S. plan.		
RUDDER—A x D		773.50		
Speed of Vessel		14 ³ / ₄		
RUDDER mainpiece at head ...		14	Sumitomo Steel Co. Osaka.	
" " heel ...		11		
" how constructed		Built. See app. plan.		
" double or single plate		Double .50		
" coupling, vertical or horizontal		Vertical 36" x 33"		

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) **Open Hearth Process.**

STEEL. Lanarkshire steel 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 Abt. Schulz Knaut of Hückingen. Vereinigte Stahlwerke A.G. Hamborn.
Has the Steel been tested as required by the Rules? Yes. Vereinigte Stahlwerke A.G. Hoerder Verein of Hoerde.
Vereinigte Stahlwerke A.G. Hütte R.M. Meiderich. Vereinigte Stahlwerke A.G. Nied. Hütte Duisburg
Vereinigte Stahlwerke A.G. Stahl- und Walzwerke Thyssen. Mulheim-Ruhr.

EQUIPMENT No. 46196.												LETTER dt	ANCHORS.		3B. 1S.
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.				Cwts.
1375	1st Bower ...	79	2	9				58	10	-	-		"Union"	Dortmunder Union of	Dortmund.
1374	2nd „ ...	79	2	11				58	10	-	-			Dortmund.	" "
1373	3rd „ ...	79	1	15				58	6	-	-				" "
	Collective weight.	238	2	8								232-0-0			
1376	Stream	23	2	5	6	3	3	23	11	3	14		Stock	"	" 9-11-29Jr.

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.	
	Fathoms.	Ins.	Stations.	Break-ing.	Supplied.	Per Rule.	Supplied.	Per Rule.	Fathoms.	Ins.					Fathoms.	Ins.		Fathoms.	Ins.
1686	309 2/3	2 1/2	112	5	1038-2-8	940	300	2	8	16	S.I.	Osaka Chain Works.	Osaka 9-11-29	TOWLING	130	5 1/2	88.0	130	6
													20&21-12-29	HAWSERS & WARPS	2-100	3 1/2		2-100	2 1/2
													Y.Jo.		"	"		"	"
Iron Stream Steel Wire	120	4 1/2			65.5	S.F.					S.W.								

Steering Gear, Steam **Brown Bros' Electro Hydraulic** Steering Gear, Hand **Yes**

Boats **2- 26'-0" Lifeboats.** 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"x2" Soft wood, 7" apart**

Cargo Hatchways—(Upper Deck) **Plates & angles & wood covers.** Thickness of Hatches **3" O.P.**

Size of No. 1 Hatchway (Forward) **27'0"x20'0" No. 35'9"x20'0" No. 35'9"x20'0" No. 42'4'9"x20'0" No. 53'10"x20'0" No. 62'4'9"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 ZOSEN KAISHA, LTD.
J. Goto
 Builder's Signature for GENERAL MANAGER.

GENERAL DECLARATION **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. & 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.

Note:- Vessel has Cruiser stern.

Plans sent under separate cover of:-

Midship section. Construction profile and Deck plan.

W.T. & O.T. Bulkhead plan. Wing fuel oil tank top, & bow & stern construction plan.

W.S. pillar & pillar girders plan. Shell expansion. Stern frame & stern cut up. Shaft bracket.

Rudder. Auxiliary diesel engine sheet plan. Pumping plan, and Steel Invoices.

Certificates of Castings and Forgings herewith.

The amount of Entry Fee	£ 110:00	Fees applied for,	
		16. 6. 1930	
Special Survey Fee....	£ 6134:00	Received by me,	
Freeboard.	" 210:00	<i>Ken</i>	
Expenses, if any	£ 69:00 (Lon)	1. 7. 1930	
(Total)	" 184:44 (Kob)		

I am of opinion the Vessel should be Classed ***100A1 with freeboard.**

State whether the Vessel has been built under Special Survey **Yes**

H+M Certificate to be sent to **Nagasaki.** Date of issue **9/9/30**

Signature *George Anderson*
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute) **FRI. 5 SEP 1930**

Character assigned **+ 100A1 with fed.**

+ L.M.C. 6.30

Lloyd's A.S.C.P.

Oil Eng. O.B. 100lb.

write up

C.L.

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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.

	Anchor head.	Shank.
1st Bower	51-2-27 KH LR 10124 25-10-29.	27-3-10 KH LR 667 21-10-29.
2nd "	51-0-19 " 10118 21-10-29.	" 28-1-20 " 679 25-10-29.
3rd "	51-1-15 " 10117 21-10-29.	" 28-0-0 " 666 21-10-29.
Stream	23-2-5 " 10125 25-10-29.	

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. — ft., Bridge — ft., Forecastle 40.0 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.D. part W.S.

Official No. 35936 ; Signal Letters V.G.H.F. Is bottom of Vessel coated with cement if not give

particulars of composition Fore & Aft peak tanks & F.W. tanks cement washed. F.O. tanks not coated.

PARTICULARS OF WATER BALLAST.—

PARTICULARS OF WATER BALLAST.			Where Fitted.		°Length.	Water Capacity.
Where Fitted.			Feet.	Tons.	Feet.	Tons.
Double bottom, aft,			126.5	225.49	25.27	95.79
Double bottom, under Engines and Boilers,			63.25	429.33	20.56	88.79
Double bottom, if under Engines only,					104.5	977.66
Double bottom, if under Boilers only,			183.5	640.61	35.75	1184.51
Double bottom, forward,						
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. 91.

Date 16th April 29.
LONDON.

Dates of Surveys held while building

1929. Oct 1.14.17.30 Nov 1.7.8.11.16.21.26.29 Dec 3.4.6.9.12.18.21.
1930. Jan 6.10.13.17.20.21.23.25.27.29.30 Feb 1.6.7.13.14.15.17.19.20.22
24.27 Mar 1.5.7.10.13.14.17.19.20.22.24.28.29 Apr 1.7.22.23 May 1.7.1
14.16.19.21.23.27.28.31 June 2.9.11.12.13.14.17.18.19.21.23.

Total No. of Visits 81

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