

STEEL STEAMER or MOTORSHIP.

NOV 19 1937

Received at London Office

State if Report has been sent on the Freeboard of the Vessel *No*State if Report is sent on the Machinery of the Vessel *Yes*

Date of completion of report

18/10/37

Port of

Yokohama

No. 6235

Survey held at

Yokohama

Date First Survey

1-9-36

Last Survey

13th October, 1937

On the

Single Screw Motorship "KAIJO MARU" (Machinery aft)

State Type

Full Scantling

State Type of Erections

Poop, open bridge, forecastle

TONNAGE under Tonnage Deck

8027

CLASS 100 A1

State if with freeboard as condition of Class

C.P.

Built at Yokohama

Do. of space or spaces 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 470.16

Launched 7th August 1937 Yard No. 279

Mitsubishi Yokohama K.K.

Builders Yokohama Dock

Total

8027

Breadth (greatest moulded)

B 61.02

Owners

Nippon Tanker Kabushiki Kaisha

Gross Tonnage

8637

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

D 37.50

1st Longitudinal Number (L x D) = 17631

Managers

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

2nd Numeral L x (B + D) = 46320

Residence

REGISTERED DIMENSIONS.

in feet

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

Proportions—Depth to Length—Uppermost continuous deck to top of keel

12.54

Port of Registry Tokyo

X surveyed while building, afloat, in dry dock

Draught Moulded

8.996

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP. 4 m.m.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP. 4 m.m.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	810	✓	Bracket Floors, Frame	✓	
" " from $\frac{3}{8}$ length to Collision bulkhead	685	✓	" " Reversed Frame	✓	
" " in peaks	610	✓	" " Vertical Struts	✓	
DE FRAMING.			Centre Girder, depth and thickness amidships	61	✓
Frame Amidships, Angle, [or]	230 x 90 x 10/13	10 new ribs 13-5 ship	" " top Angles	90 90 13	✓
" " Extends up to	upper deck	✓	" " bottom Angles	130 130 15	✓
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	2 - 64 1 - 47	✓
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	✓	
Depth of Framing Girder	230	✓	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	✓	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	✓		" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem	✓	
" " Second 'tween Decks, Angle, [or]	✓		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem	✓	
" " Third " " "	250 90 9/13	✓	" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem	✓	
Framing in Peaks, Angle [or]	9 3 1/2 475	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 4 7/8	✓	INNER BOTTOM PLATING, ENGINE ROOM		
State if Frame Joggled	Yes	✓	Breadth and thickness of Middle Line Strake	120 x 56	✓
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	Rel. frames & plating straps as approved plan	✓	Thickness of remainder in Holds	✓	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Bottom plating 82 from 1/2 L to C BHD	✓	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?	✓	
DOUBLE BOTTOM.	Bottom frames 150 150 12	✓	BEAMS.		
Uppermost Continuous Deck, amidships			Uppermost Continuous Deck, amidships		
Floors, Depth and thickness at mid-line in Holds	✓		" " in Wells, Angle, [or]		
Height of Brackets at side above base line at toe of frame	✓		" " in way of Bridge, Angle, [or]	200 90 8/13.5	✓
Middle Line Keelson, on Floors, Angles, [or]	✓		Spacing	685	✓
" " Through Plate or Intercoastal Plate	✓		Second Deck, amidships, Angle, [or]	✓	
" " Foundation Plate on Floors	✓		Spacing	✓	
" " Flat Plate Keel Angles	✓		Third Deck, amidships, Angle, [or]	✓	
Side Keelsons, No. each side	✓		Spacing	✓	
" " thickness of Intercoastal Plate	✓		Fourth Deck, amidships, Angle, [or]	✓	
" " Angles	✓		Spacing	✓	
DOUBLE BOTTOM. IN ENGINE ROOM			Poop Deck, Angle, [or]	200 90 8/13.5	✓
Solid Floors, thickness and spacing	50 - 47 810	✓	Spacing	810	✓
" " Are Frame and Reversed Frame joggled?	Yes	✓	Bridge Deck, Angle, [or]	150 75 9.5	✓
Bracket Floors, breadth and thickness at middle line	✓		Spacing	810	✓
" " breadth and thickness at margin plate	✓		Forecastle Deck, Angle, [or]	200 90 8/13.5	✓
			Spacing	610	✓

PILLARS AND DECKS.

	INCHES IN SHIP. <i>W T M</i>			Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
PILLARS , No. of Rows.....	2				Stringer Plate, breadth and thickness in way of Bridge		✓		
„ in 'tween Decks, Size and Spacing					Thickness of Plating abreast Deck openings) in way of Wells		✓		
„ „ „ „ „					Thickness of Plating abreast Deck openings) in way of Bridge		✓		
„ in Hold <i>FORE</i> „ „ <i>I</i> 300 .40 ✓					Thickness of Plating within line of openings...		✓		
„ <i>ENGINE ROOM</i> „ „ <i>E</i> 300 90 <i>12/55</i> ✓					If Sheathed, material and thickness		✓		
„ „ „ „ „									
Centre Line Bulkhead.					Third Deck.				
Stiffeners and Spacing.....	<i>See longitudinal framing 1*</i>				Stringer Plate, breadth and thickness.....		✓		
Plating, thickness of					If Plated, state thickness.....		✓		
STRINGERS AND DECKS.					Fourth Deck.				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....		✓		
Stringer Plate, breadth and thickness in Wells <i>1650 .80</i> ✓					If Plated, state thickness		✓		
„ „ „ „ „ <i>CARGO TANKS</i> <i>1-17</i> ✓					Poop Deck.				
„ „ „ „ „ <i>POOP FRONT</i> <i>200 200 20</i> ✓					Stringer Plate, breadth and thickness	1650 .58 .50		✓	
„ Angle in Wells <i>OVER LONG. B'HS</i> <i>.80</i> ✓					Plating, Sheathing, material and thickness ..	.46 .34 <i>3 0P</i>		✓	
Thickness of Plating abreast Deck openings) in way of Wells <i>REMAINDER</i> <i>.74</i> ✓					Bridge Deck.				
Thickness of Plating abreast Deck openings) in way of Bridge <i>ENGINE</i> <i>.42</i> ✓					Stringer Plate, breadth and thickness.....	1092 .44		✓	
Thickness of Plating within line of openings...	✓				Plating, Sheathing, material and thickness ..	.30 <i>2 TEAK</i>		✓	
If Sheathed, material and thickness	✓				Forecastle Deck.				
Second Deck.					Stringer Plate, breadth and thickness.....	915 .50		✓	
Stringer Plate, breadth and thickness in Wells...	✓				Plating, Sheathing, material and thickness ..	.50		✓	

SHELL PLATING.

SCANTLINGS.						RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?		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.										
FLAT PLATE KEEL	1400	1.05	.82	.82	✓	Double	1 1/8	4 1/2	5-4	1 1/8	5	Lapped	✓	
„ DBLG. (if any)		✓	.56											
BOTTOM PLATING, No. of StrakesA.....	A, B	.80	.56	.52	✓	"	1	4	5-3	1	4 1/2	"	✓	
	C, D	.74	.56	.52	✓	"	1	4	5-3	1	4 1/2	"	✓	
BILGE PLATING, No. of Strakes2.....		.74	.56	.52	✓	"	1	4	5-3	1	4 1/2	"	✓	
SIDE PLATING, No. of Strakes4.....		.70	.56	.50		"	7/8	3 1/8	4-3	7/8	3 1/2	"	✓	
UPPER DECK, Sheer-strake in Wells.....		1.00	.56	.50	✓	"	1 1/8	4 1/2	5-3	1 1/8	5	"	✓	
UPPER DECK, Sheer-strake in Bridge AT POOP FRONT.....	DOUBLED	.76			✓	"								
STRAKE BELOW Sheer-strake in Wells.....		.90	.56	.50	✓	"	1	4	3	1	4 1/2	Double Straps.	✓	
STRAKE BELOW Sheer-strake in Bridge ...						"								
POOP SIDE PLATING64	.42	✓	"	7/8	3 1/2	3-2	7/8	3 1/8	Lapped	✓
BRIDGE SIDE PLATING ...														
FOREC'TLE SIDE PLATING			.44		✓	Single	3/4	3	1	3/4	2 5/8	"	✓	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	O.T.	10 TO U.D.K. ✓
Extending to Upper Deck (Sec. 3 c)	W.T.	1 " " ✓
„ Deck next below	"	1 " 2nd DK. ✓
As per Rule		<i>12 + 14 B.H.</i>

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Flat plate	✓		
STEM	Forging 280x70	✓		
STERN FRAME { Propeller Post	Forging Oakuma Steel Works	✓		
{ Rudder „	Built up type. ch approved plan			
Speed of Vessel	12 KNOTS	✓		
RUDDER—Type				
„ A x D				
„ Diam. of head	Forging 290	Oakuma Steel Works ✓		
„ Mainpiece at top pintle				
„ „ heel ...				
„ how constructed	Stenciled. Balanced ✓			
„ double or single plate	Double ✓			
„ coupling, vertical or horizontal	Horizontal ✓			

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D , Upper tween decks					
„ „ Second „		SEE SEPARATE LIST			
„ „ Third „					
„ „ Holds					
COLLISION „ (in Hold)		50-26 230x90x5.5	610	Panting stringer	1800 ✓
AFTER PEAK „ „		54-30 9x32x.475	610	✓	✓

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	<i>Tsurumi Seitetsu. Sawata, Rippou Seitetsu K.K. Rippou Kodan</i>
	<i>Open Hearth</i>
	Has the Steel been tested as required by the Rules? <i>Yes. ✓</i>

"KAIJO MARU"Particulars of Longitudinal and Transverse Framing at Side, Bottom and Deck, in way of cargo oil tanks.

	Inches & lbs.	Riv in long	Spacing rivets each side	Rivets in brackets to bulkheads
		Dia & spacing	transverse & leads	number inches
Bottom longitudinals [17 x 4 x 4 $\frac{66}{68}$	✓ 1" 6"	3 1/2	✓ 30 7/8
Back bar at ends	100 x 100 x 15, 1300	✓		
Spacing	810	✓		
Upper deck longitudinals [230 x 90 x 90 $\frac{10}{13.5}$	✓ 1" 6"		8 7/8 ✓

Transverses

	Depth & thickness	Rivets to shell	Intercostal Bottom
Upper Deck	Face angle	Dia. Spacing	centre girder
Lugs to deck	90 x 90 x 11	7/8 4 3/8	Plate 1220 46 ✓
Bottom	Depth & thickness 1220 x 46		Face bar 150 x 90 x 12 L ✓
Face angles	150 x 90 x 12		Bottom ang. 130 x 130 x 15 JL ✓
Lugs to shell	150 x 150 x 12	7/8 4 3/8	
Back bar	90 x 90 x 12		Intercostal upper deck
Spacing transverses	3,240		centre girder
			Plate 915 x 42 ✓
Web frames spaced	3240		Face bar 150 x 90 x 12 L ✓
" " Depth & thickness	380 x 50, 100 FL		Deck angle 90 x 90 x 11 L ✓
Shell angle	90 x 90 x 13	7/8 4 3/4	
Transverse frames [230 x 90 x 90 $\frac{10}{13.5}$	7/8 4 7/8	

see rivet ship

O.T. Transverse bulkheads.

Plating	Stiffeners	Horizontal girders
	Vertical	Ming tanks
.54 bottom	230 x 90 x 90 $\frac{10}{13.5}$	1 top 815 x 44 x 90 FL ✓
.44	Spaced 810	2 815 x 44 x 100 " ✓
.50 top		3 815 x 44 x 130 " ✓
		plate centre Face bar
		1 840 x 44 150 x 90 x 15 A ✓
		2 915 x 44 8 x 3 1/2 x 45] ✓
		3 915 x 46 9 x 3 1/2 x 475] ✓

2 O.T. Longitudinal bulkheads.

Plating	Stiffeners	Horizontal Girders
	Vertical	
.52 bottom	230 x 90 x 90 $\frac{10}{13.5}$	1 top 815 x 44, 90 FL ✓
.44	Spaced 810	2 " ✓
.50 top		3 " ✓

Transverse beams to each transverse.

1st girder	250 x 90 x 90 $\frac{10}{14.5}$	✓
" 2nd "	300 x 90 x 90 $\frac{12}{15.5}$	✓

A. M. Mclashan.

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Lloyd's Register
Foundation

EQUIPMENT No												LETTER	ANCHORS.			
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.				
1290	1st Bower ...	83	2	24	✓			60	10	0	0	✓	Stockless Halls	Kobe St. Mks	Kobe 15.6.37 S Soga	
1291	2nd „ ...	83	0	12	✓			60	10	0	0	✓	"	"	" "	
1292	3rd „ ...	82	3	7	✓			60	0	0	0	✓	"	"	" "	
	Collective weight.	248	2	15								232			" "	
1293	Stream	24	0	10	✓	6	1	19	23	19	2	21	✓	Ordinary 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- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.
	Fathoms.	Ins.	Tons.	Cwts.	qrs.	lbs.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
	Obchs.	Obch.	Kgs.	Kgs.													
2340	552	65	118200	165500	52725	✓			Stud Link	Kokko Chm Hosko Osaka	Osaka 19.4.37 J. Chaturani	TOWLINE...	240	5 1/2	99.1	✓	
												HAWSERS & WARPS	185	8 1/2			
												"	185	8		Chamilla	✓
												"	185	8			
												"	185	8			
a Stream chain or reel Wire	Obchs.	Cir.							Cir.								
	220	4 3/4	✓	69.1	✓												

Steering Gear, Steam *Efficient* Steering Gear, Hand *Three & blocks lead to Capstan. ✓*

Boats 2 Lifboats, 1 dinghy Steering Chains, Size and Test *One direct coupled to engine* Windlass *Steam efficient. ✓*

Ceiling in Holds, thickness and material *2 1/2 O.P. on 50 in. battens* Cargo Battens, thickness, material and spacing *150 x 50, 180 apart wood. ✓*

Cargo Hatchways. (Upper Deck) *4 110 x 4880 coaming 610 x 50* Thickness of Hatches *Plate 40 ✓*

Size of No. 1 Hatchway (Forward) *Remainder O.T. Hatchways coaming 760 x 44*

Number of Shifting Beams and/or Fore and Afters *2 shifting beams to hatchway fore hold*

Builder's Signature *J. Wada*

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

All oiltight and watertight compartments were tested to rule requirements and found satisfactory. All weather decks were hose tested and found watertight. The vessel was built as per approved plans.

Oil fuel is carried in deep tanks forward and aft. F.P. above 150° F

A copy of the midship section of the vessel as built also copies of forging and casting certificates are forwarded.

A summer freeboard of 2.454 metres has been assigned by the Japanese Government.

The workmanship and materials are good.

This vessel is a sistership to "HOYO MARU" Yha. report No. 5932. ✓

he amount of Entry Fee £ 11 0 0

Special Survey Fee.... £ 779 16 3

Travelling Expenses, if any *26 00*

KOBE *4 69 00*

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

Fees applied for, *19-10-37*

Received by me, *14/2 1938*

(Special notations, where part of class, to be stated.)

Longitudinal framing at bottom & at deck ✓

I am of opinion the Vessel should be Classed *100A1 ✓*

Carrying petroleum in bulk. ✓

Signature *C. A. McElashan.*

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Yokohama* Date of issue *15/2/38*

Committee's Minute

Character assigned *+ 100A1*

Carrying petroleum in bulk

Lloyd's accd.

Oil

(note Sky Blk)

Write 1/2 Nom

2 50-165th

oil exp. Cf.

10.37

1928 3/3

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.)

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book *Carrying petroleum in bulk. Braiser stern. Longitudinal framing at bottom and at deck.*

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	<i>c g lbs</i> 48.1.6	SS	1290	23.2.37
	2nd "	46.2.17	"	1291	23.2.37
	3rd "	47.1.6	"	1292	16.3.37
		23.1.4	"	1293	16.3.37

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *136.9* ft., R.Q.D. ☒ ft., Bridge *37.2* ft., Forecastle *40.08* ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

No. and Material of Decks *One deck steel. - 2nd deck of corrugated iron*

Official No. *43992* ; Signal Letters *JWGL.*

☒ bottom of vessel coated with cement *engine room well* if not give particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	<i>28.85</i>	<i>186</i>
Double bottom, under Engines and Boilers,			After peak tank,	<i>20.01</i>	<i>143</i>
Double bottom, if under Engines only,	<i>47.82</i>	<i>169.4</i>	Deep tank, aft,		
Double bottom, if under Boilers only,	<i>dated 29/12/37</i>		Deep tank, forward,	<i>35.95</i>	<i>292</i>
Double bottom, forward,			Other tanks, if fitted,		
	Total capacity of double bottom	<i>169.4</i>	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. *47*

Date *2.7.36.*

Dates of Surveys held while building

1/9/36, 17/12, 8/1/37, 25/1, 3/2, 9/2, 16/2, 19/2, 22/2, 25/2, 10/3, 12/3, 29/3, 6/4, 13/4, 22/4, 28/4, 3/5, 10/5, 18/5, 20/5, 14/6, 21/6, 24/6, 1/7, 2/7, 7/7, 10/7, 13/7, 16/7, 20/7, 21/7, 23/7, 27/7, 28/7, 29/7, 31/7, 2/8, 3/8, 4/8, 24/8, 29/8, 6/9, 16/9, 30/9, 8/10, 13/10, 30/10

Total No. of Visits *47*