

STEEL STEAMER or MOTORSHIP.

Received at London Office JUL -9 1937

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 3rd June 1937.

Port of NAGASAKI.

No. 2251

Survey held at NAGASAKI.

Date First Survey 13th October 1936. Last Survey 14th May 1937. 19

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Single Screw Motor Vessel "KOTOKU MARU"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Single Sc.M.V. "KOTOKU MARU". State Type of Erections Poop, Bridge & Forecastle.

TONNAGE under 6,077.24
Tonnage Deck...

CLASS *100AI

State if with freeboard
as condition of Class No
FEET.

Built at Nagasaki.

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 435.0

Launched 30th Jan. 1937 Yard No. 671

Overall Length 453.75

Builders Mitsubishi Jukogyo K.K.

Total 6,077.24

Breadth (greatest moulded) B 58.5

Owners Hiroumi Shoji K.K.

Gross Tonnage 6,700.79

Depth, at middle of length from top of keel to top
of beam at side of uppermost continuous
deck. See Sec. 3 (1c) D 32.83

Managers /

Register Tonnage 4859.91

1st Longitudinal Number (L x D) = 14,281

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

REGISTERED DIMENSIONS.
FEET.

Length 436.42

Framing Depth "d," at middle of length. See
Sec. 3 (1d) 20.08 &
18.83ER

Residence Osaka.

Breadth 58.50

Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel 13.25

Port of Registry Osaka

Depth 30.2

Do. Long Bridge to top
of keel 10.72

If surveyed while building, afloat, or in dry dock

Draught Moulded 26.4

Building.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	m/m or INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		m/m or INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	33"	As approved	Bracket Floors, Frame	BA..... 8" 3 1/2" .45	As approved
" " from 3/4 length to Collision bulkhead.....	27"	"	" " Reversed Frame	BA..... 180 75 9.5	"
" " in peaks.....	24"	"	" " Vertical Struts	Ch..... 230x90x90x13.5	"
SIDE FRAMING.			Centre Girder, depth and thickness amidships	45"x13.5-12	"
Frame Amidships, xxxx [xxx]	300x90x90x13	✓	" " top Angles	Double 90 90 12-11	"
" " Extends up to	2nd Dk. Upp. Dk. & Brg. Dk. where fitted	✓	" " bottom Angles	Double 100x100x13.5-13	"
" " Reversed Frame Amidships, xxxx [xxx]	Alt. y: web cut to from 200x90x10 A. in Tween Dks & Brg. space where fitted.	✓	Side Girders, No. each side and thickness	One 9.5-ER 11x12.5	"
" " Extends up to...			Margin Plate depth (excl. of flange) and thickness	40"x14-13.5	"
Depth of Framing Girder	12" 9	✓	" " Vertical Angle to Tank side	ER 55"x14	"
Frames in Uppermost Continuous 'tween Decks, xxxx [xx]	230x90x90x13.5	✓	" " Bracket abaft 1/4 len. from stem	130x130x11	"
" " Second Deck Brackets, xxxx [xx]	Alt. frs. & 4 frs at Brg. ends	✓	" " Vertical Angle to Tank side	ER 90x90x11	"
" " Third " " " "	Web cut to form 200x90x9 Ang. at alt. frs in Brg. space.	✓	" " Bracket forward 1/4 len. from stem	130 130 11	"
Framing in Peaks, xxxx [xxx]	200 75 10	✓	" " Gussets, spacing and scantling abaft 1/4 len. from stem	10.5 Continuous	"
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	7/8"-5 1/4"	✓	" " Gussets, spacing and scantling forward 1/4 len. from stem	10.5	"
State if Frame Joggled	Joggled	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	6'-11"x11.5	"
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Web frs in Hold beam on alt. frs in F.P. tank	✓	INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FOR- WARD. State Particulars	4 side stringers & face ang. fitted to main frs.	✓	Breadth and thickness of Middle Line Strake	52 1/2"x13-11	"
SINGLE BOTTOM.	3 strakes of Brg. shell plating increased in thickness.	✓	Thickness of remainder in Holds	11.5-10	"
Floors, Depth and thickness at mid-line in Holds	Solid floors with D.R. angles & back bar Add. side girders fitted.	✓	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 ER 13.5	"
Height of Brackets at side above base line at toe of frame	Forwd of 1/2 L.	✓	BEAMS.		
Middle Line Keelson, on Floors, Angles, [or []			Uppermost Continuous Deck, amidships	230x80x80x9.5	"
" " Through Plate or Intercostal Plate			" " in Wells, xxxx [xxx]	230x80x80x12	"
" " Foundation Plate on Floors			" " in way of Bridge, xxxx [xxx]	200x90x90x13.5	"
" " Flat Plate Keel Angles			" " Spacing	Every frs.	"
Side Keelsons, No. each side			Second Deck, amidships, xxxx [xx] & [xx]	200x90x90x9	"
" " thickness of Intercostal Plate			" " Spacing	& 8x3 1/2x.45	"
" " Angles			Third Deck, amidships, Angle, [or []	Every frs.	"
DOUBLE BOTTOM.			" " Spacing		"
Solid Floors, thickness and spacing	11 every 3rd floor. 11 every floor in E.Rm. & fwd of 1/2 L.	✓	Fourth Deck, amidships, Angle, [or []		"
" " Are Frame and Reversed Frame joggled?	Joggled	✓	" " Spacing		"
Bracket Floors, breadth and thickness at middle line	34"x11	✓	Poop Deck, Angle, [xx]	200x80x80x11	"
" " breadth and thickness at margin plate	38"x11	✓	" " Spacing	Every frs	"

PILLARS AND DECKS.

	m/m or INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	m/m or INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....	Widely spaced	As approved	Stringer Plate, breadth and thickness in way of Bridge	66"x9.5 ✓ As approved
„ in 'tween Decks, Size and Spacing.....	Fr. 17 9" dia Tube 10m/m Thk W.S.	✓	Thickness of Plating abreast Deck openings in way of Wells	9, 5-8.5-8 ✓ "
„ „ „ „ „ „	Fr. 62 10" Tube 11	✓	Thickness of Plating abreast Deck openings in way of Bridge	8.5 ✓ "
„ „ „ „ „ „	Fr. 77 250x90x90x14.5 & 180x75x9.5	✓	Thickness of Plating within line of openings...	8-8.5 ✓ "
„ in Holds „ „	Fr. 148 10" dia Tube 10m/m Thk W.S.	✓	If Sheathed, material and thickness	Unsheathed ✓ "
„ „ „ „ „ „	Fr. 77 250x90x90x14.5	✓	Third Deck.	
„ „ „ „ „ „	Fr. 81 20x90x90x13.5	✓	Stringer Plate, breadth and thickness.....	
Centre Line Bulkhead. Fr. 85-92			If Plated, state thickness.....	
Stiffeners and Spacing.....	Inv. Ang: 7"x31"x.525"-33"	✓	Fourth Deck.	
Plating, thickness of	7.5	✓ As approved	Stringer Plate, breadth and thickness.....	
STRINGERS AND DECKS.			If Plated, state thickness	
Uppermost Continuous Deck.			Poop Deck.	
Stringer Plate, breadth and thickness in Wells	66"x25	✓	Stringer Plate, breadth and thickness	37"x9 m/m ✓ "
Double at Brg: ends 18.5		✓	Plating, Sheathing, material and thickness ...	Stl 7.5 m/m ✓ "
„ „ „ „ „ in way of Bridge	66"x10.5	✓	Bridge Deck.	
„ „ „ „ „ Angle in Wells	200x200x25	✓	Stringer Plate, breadth and thickness.....	60"x14.5 ✓ "
Thickness of Plating abreast Deck openings in way of Wells	18.5	✓	Plating, Sheathing, material and thickness ..	Stl 11 ✓ "
Thickness of Plating abreast Deck openings in way of Bridge	9.5	✓	Forecastle Deck.	
Thickness of Plating within line of openings...	11-9	✓	Stringer Plate, breadth and thickness.....	35"x9 m/m ✓ "
If Sheathed, material and thickness	Br. Dk: 8-5	✓	Plating, Sheathing, material and thickness ..	Stl 9 m/m ✓ "
Second Deck.				
Stringer Plate, breadth and thickness in Wells...	66"x10.5	✓		

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.	m/m	Inches.	m/m			m/m	Inches.	m/m	Inches.	m/m	
FLAT PLATE KEEL	51"	21.5	19	19	As approved	Double	25	100	4 - 3	25	100	Lapped
" Deck plating Ford of 1/2 L. Ends.		25			"	"	28	115	4	25	100	"
BOTTOM PLATING, No. of Strakes 4		17.5	15	13	"	"	22	90	4	22	88	"
BILGE PLATING, No. of Strakes 1		17.5	13	13.5	"	"	22	90	4	22	88	"
SIDE PLATING, No. of Strakes 3		17.5	11.5	11.5	"	"	22	90	3	22-19	80-65	"
UPPER DECK, Sheer-strake in Wells.....	73"	24	11.5	11.5	"	"	25-22	100-90	4.5-3	25-22	100-80	Laps & D.B.S
UPPER DECK, Sheer-strake in Bridge ...		20.5	Db1	at Brg. ends.	"	"	22	90	3	22	80	Lapped
STRAKE BELOW Sheer-strake in Wells.....	78"	20.5	11.5	11.5	"	"	25-19	100-75	4 - 3	25-19	100-65	"
STRAKE BELOW Sheer-strake in Bridge ...		17.5	11.5	11.5	"	"	22	90	3	22	80	"
POOP SIDE PLATING				10	"	Single	19	75	1	19	65	"
BRIDGE SIDE PLATING ...		15.5			"	Double	22	90	4	22	90	"
FOREC'TLE SIDE PLATING			10.5		"	Single	19	75	1	19	65	"

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		Casting or Forging.		Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
* Extending to Upper Deck (Sec. 3 c)	7.	(One Tw Dk: Bulkhead dispensed with. Owners letter here-with.)				As approved
" Deck next below	8.					"
As per Rule	7. ✓					"
		STIFFENERS.				
Plating Thickness.		VERTICAL.		HORIZONTAL.		
		Scantlings.	Spacing.	Scantlings.	Spacing.	
MIDSHIP BULKH'D, Upper tween decks	7- 6.5	125x12 FP	24"- 30"	-	-	
" " Second "						
" " Third "						
" " Holds	10.5-7.5 12.5	250x10 Web with 100x 16 F.B.				
COLLISION (in Hold)	11.5-8.5	250x11 & 85x16	24" box	Semi-	Height	
AFTER PEAK	8.5 17.5-7.5	150x100x 9 inv. ang.				

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Open Hearth process.
 Nippon Seitetsu K.K. Yawata:- Asano Shipbuilding Co. Tsurumi: Nippon Koken K.K.

Has the Steel been tested as required by the Rules? Yes

Lloyd's Register
Foundation

EQUIPMENT No 41218 ✓										LETTER bt ✓	ANCHORS. 3B, 1S.
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE			Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.
1185	1st Bower ...	70	0	17	Stockless	54	0	0	0	0	0
1183	2nd " ...	70	0	4	"	"	"	"	"	"	"
1184	3rd " ...	69	3	23	"	"	"	53	15	0	0
	Collective weight.	210	0	16							
1186	Stream	21	1	12	5	1	18	21	18	0	14

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.	Stu- tory.	Break- ing.	Supplied.	Per Rule.			Length. Diam.					Length. Cir.	Tons.	Length. Cir.	Fathoms.	Inch.		
2252	550 60	102000	✓	47335	42560	✓	3002	6 16	S.L.	Osaka Chain & Machy Wks	Osaka 11-8-36	5903	240	5	81.0				
				142800															
5903	M 225	5	✓	55.2						Kwansai Seiko KK	Osaka 18-1-37	SH							

Steering Gear, Steam Janney Hydraulic E. Motor Driven.										Steering Gear, Hand Worm gear & Pinion, Good & efficient.									
Boats 2 off 28'-0" 1 off Temma.										Windlass Electric, Good and efficient.									
Ceiling in Holds, thickness and material 2 1/2" O.P. on 2" Wood battens										Cargo Battens, thickness, material and spacing 150x50m/m 9" apart.									
Cargo Hatchways. (Upper Deck) Sides 12.5 m/m Ends 11 m/m x 30" above deck.										Thickness of Hatches 75 m/m O.P.									
Size of No. 1 Hatchway (Forward) 31.5' x 21.0' No. 2 38.5' x 21.0' No. 3 30.25' x 21.0' No. 4 19.25' x 21.0' No. 5 38.5' x 21.0' No. 6 33.0' x 21.0'																			
Number of Shifting Beams 2 off 28'-0" 1 off Temma.																			

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										The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.									
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo										Yes									
Oil fuel carried in double bottom tanks, lower peak tanks, wing tanks in E.Rm. and aft end of tunnel. F.P. above 150° F.																			
Cargo oil carried in deep tanks, F.P. above 150° F. all the requirements of Sections 20 & 34 of the Rules complied with.																			
This vessel constructed under Special survey in accordance with the terms of the Rules & approved plans. The materials have been tested and the workmanship throughout is good.																			
All tanks have been tested by a head of water as required by rules and found sound and tight.																			
Weather decks, bulkheads, side scuttles and hatch tarpaulins hose tested and found good.																			
All oil fuel suction & filling pipes tested in place to 2 Kg/cm ² . Heating coils tested in place to 200 lbs/sq.in. and all found good and tight.																			
Water tight doors and hand pump tested and found good.																			
J.G. Freeboard as marked on Ships sides 2064 m/m from top of Upper deck at side to centre of disc.																			

The amount of Entry Fee ... £ 10-0-0										(Special notations, where part of class, to be stated.)									
Special Survey Fee ... £ 459-8-0																			
Travelling Expenses, if any £ 74:06 (Lon) £ 11:56 (Kob)																			
State whether the Vessel has been built under Special Survey Under Special Survey.										I am of opinion the Vessel should be Classed +100A1.									
Certificate to be sent to Nagasaki										Signature H. Buchanan & T. Kimishie									
Date of issue 26/8/37										Surveyor to Lloyd's Register of Shipping.									

Committee's Minute/										FRI 16 JUL 1937									
Character assigned										+ 100A1 subject carrying cargo oil F.P. above 150° F. in deep tank.									
										Lloyd's A+C.P. + Lmc 5.27 CL 4B 121 lb									
										Lloyd's A+C.P. + Lmc 5.27 CL 4B 121 lb									

The Surveyors are requested not to write below the Committee's Minute.

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.)

To be Done:- 1 length of chain cable to be repaired or renewed, due to an end link being found cracked after trial trip.
It was stated that this cable will be placed on board at Kobe to which port the vessel is now proceeding.

Plans of the ship as built forwarded under separate cover, viz:-

Midship section: Construction profile & deck: W.S. Pillar & Girders:
O.T & W.T Bulkheads: Stern frame & rudder: Stem: Shell expansion:
Aux. engine seating, and Pumping plan. and also Steel Invoices.

Forging & casting certificates forwarded herewith.

Stem (Cert No. 1450): Stern frame (Cert No. 1457): Rudder (Cert No. 1601)

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book Fitted for the carriage & burning of oil fuel F.P. above 150° F. ~~W.I.O.A.I.~~ Lloyd's A & C.P. Fitted for the carriage of cargo oil in deep tanks, F.P. above 150° F. 2 Dks Stl: 2 Tr. Bms. *Carrying cargo oil F.P. above 150° F. deep tanks*

Particulars of Drop Test of Cast Steel Anchors, viz. :—
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	40-1-0 46 S.S.	1185	21-5-36	X
2nd "	39-3-23 46 S.S.	1183	"	X 57%
3rd "	39-3-18 46 S.S.	1184	5-5-36	X

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 30.0 ft., R.Q.D. / ft., Bridge 126.5 ft., Forecastle 41.0 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated Not joined

No. and Material of Decks 2- steel. 2 tier beams.

Official No. 43187 ; Signal Letters J.J.T.L. Is bottom of vessel coated with cement Yes- Water Tk only 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, <i>including Tank in way of Tunnel</i>	143.00	652.72	Fore peak tank,	27.62	258.79
Double bottom, under Engines and Boilers,	-	-	After peak tank,	24.00	223.54
Double bottom, if under Engines only, (incl. Coff)	46.75	309.60	Deep tank, aft,	35.75	1111.77
Double bottom, if under Boilers only,	-	-	Deep tank, forward,	-	-
Double bottom, forward, <i>Tank in way of Tunnel 49.5'</i>	181.75	672.95	Other tanks, if fitted, <i>Wing tanks, P&S Eng. Rm.</i>	46.75	355.50
<i>322' 0" 1377' 8 1/2</i>		Total capacity of double bottom 1635.27	(If necessary, furnish further information by sketch.)		
<i>322' 0" 1377' 8 1/2</i> The wells are not to be included in the lengths of the tanks (See Circular No. 1284).					

Order for Special Survey No. 119

Date 17-12-1935. (Lon)

Dates of Surveys held while building

1936:- Oct 15.26 Nov 5.10.16.25.28. Dec 2.3.4.8.16.20.23.24.26.28.30.
1937:- Jan 7.8.12.15.19.20.21.22.23.25.26.27.28.29.30 Feb 8.10.16.19.20.
Mar 11.15.19.23.29.31 Apr 1.2.5.12.14.16.17.19.20.26 May 4.8.10.11 14.

Total No. of Visits 60