

RETAIN

STEEL STEAMER or MOTORSHIP.

Received at London Office **7 MAY 1935**

State if Report has been sent on the Freeboard of the Vessel **No.** (Verification form only).

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

Date of completion of report **8th April 1935.** Port of **NAGASAKI.** No. **2028**

Survey held at **NAGASAKI.** Date First Survey **17th May 1934.** Last Survey **30th March, 1935.19**

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) **Steel Twin Screw Steamer "NEKKA MARU".**

State Type (Full, Semi, Complete Superstructure with or without Tonnage Openings) **Complete Superstructure.** State Type of Erections **Shelter deck.**

TONNAGE under Tonnage Deck **5,175.08** CLASS ***100A1.** State if with freeboard as condition of Class **Yes** 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 420.0 (128)** Launched **23rd Nov. 1934** Yard No. **594.**

Breadth (greatest moulded) **B 56.1 (17.1)** Builders **Mitsubishi Jukogyo Kaisha, Ltd.**

Total **5,175.08** Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **D 33.1 (10.1)** Owners **Osaka Shosen Kabushiki Kaisha.**

Gross Tonnage **6,783.97**

Register Tonnage **3,911.40** 1st Longitudinal Number (L x D) **= 1299** Managers **/**

REGISTERED DIMENSIONS. FEET. 2nd Numeral L x (B + D) **= 3488** Framing Depth "d," at middle of length. See Sec. 3 (1d) **4.2 M.** Residence **Osaka.**

Length **427.0 (130.176 M).** Proportions—Depth to Length—Uppermost continuous deck to top of keel **12.61 M.** Port of Registry **Osaka.**

Breadth **56.1** Do. Long Bridge to top of keel **--** If surveyed while building, afloat, or in dry dock

Depth **33.1** Draught Moulded **10.15 M.** 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	760 m/m	As approved	Bracket Floors, Frame	B.A. 8 3 1/2 .45	As approved
" " from 3/4 length to Collision bulkhead.....	680 m/m	"	" " Reversed Frame	B.A. 5 1/2 3 1/2 .35	"
" " in peaks.....	610 m/m	"	" " Vertical Struts Ch. 250x90x90x11	14.5	"
SIDE FRAMING.			Centre Girder, depth and thickness amidships 1075x14BR 15.5		"
Frame Amidships, Angle 9 3 1/2 .475		"	" " top Angles D.A. 90x90x13.5 BR 16		"
" " Extends up to 2nd & Upper Dk: Alternately.		"	" " bottom Angles D.A. 100 100 15		"
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	10.5 BR 13	"
" " Extends up to...			Margin Plate depth (excl. of flange) and thickness	830x13.5 BR 15	"
Depth of Framing Girder			" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	90x90x11 BR 13.5	"
Frames in Uppermost Continuous 'tween Decks, Angle 6" x 3 1/2 x 4.75		"	" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	250x245x12.5 T.	"
" " Second 'tween Decks, Angle 175x90x9		"	" " Gussets, spacing and scantling abaft 1/2 len. from stem.....	Every 2nd Frs. 10.5 BR 13	"
" " Third " " " "		"	" " Gussets, spacing and scantling forward 1/2 len. from stem.....	Every Frs 10.5	"
Framing in Peaks, Angle 200 75 10		"	Tank Side Brackets, height above base line at toe of Frame and thickness	1645 m/m	"
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8" x 5 1/2"	"	INNER BOTTOM PLATING.		
State if Frame Joggled	Frs: Joggled	"	Breadth and thickness of Middle Line Strake 1330x13 BR 14.5		"
PANTING ARRANGEMENTS (Sec. 7), state system and particulars)	Deep Frs: Web Frs and Side Girder fitted.	"	Thickness of remainder in Holds	11-10 BR 14.5	"
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Solid floors every frs. D.R. angles to floors increased shell thickness & 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	"
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships 200x80x80x8/11.		"
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [or [.....		"
Middle Line Keelson, on Floors, Angles, [or [.....			" " Spacing	Every frs.	"
" " Through Plate or Intercoastal Plate....			Second Deck, amidships, Angle, [or [180x75x75x8/10.5		"
" " Foundation Plate on Floors			" " Spacing.....	Every frs.	"
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [or [180x75x75x8/10.5		"
Side Keelsons, No. each side			" " Spacing.....	Every frs.	"
" " thickness of Intercoastal Plate...			Fourth Deck, amidships, Angle, [or [.....		"
" " Angles			" " Spacing.....		"
DOUBLE BOTTOM.			Poop Deck, Angle, [or [.....		"
Solid Floors, thickness and spacing 10.5 Every 3rd Frs. 13 in B.R.		"	" " Spacing.....		"
" " Are Frame and Reversed Frame joggled?	Frs: only	"	Prom: Fore Deck, Angle, [or [150 75 8		"
Bracket Floors, breadth and thickness at middle line	806x10.5 BR 13	"	" " Spacing	Every frs.	"
" " breadth and thickness at margin plate.....	806x10.5 BR 13	"	Forecastle Deck, Angle, [or [180x75x75x8/10.5		"
			" " Spacing	Every frs.	"

PILLARS AND DECKS.

		m/m	IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....	Two Widely Spaced.	As	approved	
„ in 'tween Decks, Size and Spacing.....	195x10 to 155x9 Tubular wide spaced.	"		
„ „ „ „ „	70 to 110 Dia. Solid W. Spaced	"		
„ in Holds „ „	290x12.5 Tubular	"		
„ „ „ „ „	280x11	"		
„ „ „ „ „	150x11.5	"		
Centre Line Bulkhead.	230x80x80x9.5/12	"		
Stiffeners and Spacing.....				
Plating, thickness of				
STRINGERS AND DECKS.				
Uppermost Continuous Deck.	1530x16.5-10.5	"		
Stringer Plate, breadth and thickness in ways				
„ „ „ „ in way of Bridge				
„ Angle in ways	150x150x16.5 90x90x10.5	"		
Thickness of Plating abreast Deck openings in way of Wells	11 - 10	"		
Thickness of Plating abreast Deck openings in way of Bridge				
Thickness of Plating within line of openings...	10 - 9	"		
If Sheathed, material and thickness	(75 where exposed 65 where enclosed)	"		
Second Deck.				
Stringer Plate, breadth and thickness in ways	1220x10-8.5	"		
Stringer Plate, breadth and thickness in way of Bridge				
Thickness of Plating abreast Deck openings in way of Wells				
Thickness of Plating abreast Deck openings in way of Bridge				
Thickness of Plating within line of openings...				
If Sheathed, material and thickness				
Third Deck.				
Stringer Plate, breadth and thickness.....	1420x8.5	"		
If Plated, state thickness.....	7.5	"		
Fourth Deck.				
Stringer Plate, breadth and thickness.....				
If Plated, state thickness				
Poop Deck.				
Stringer Plate, breadth and thickness				
Plating, Sheathing, material and thickness ..				
Prom: Bridge Deck.				
Stringer Plate, breadth and thickness.....	900 x 75	"		
Plating, Sheathing, material and thickness ...	6 Wood 75	"		
Forecastle Deck.				
Stringer Plate, breadth and thickness.....	890 x 9	"		
Plating, Sheathing, material and thickness ..	75 Wood on 7-9.5 m/m Stl:	"		

SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.						
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	Not Joggled	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.	
	11 1/4	16 1/4	16 1/4	16 1/4				11 1/4	16 1/4			11 1/4	16 1/4	
FLAT PLATE KEEL	1300	19.5	17	17	As Approved	✓	Double	25 22	95 87	4 to 3		25	95 85	Lapped
„ DBLG. (if any)			16.5	13										
BOTTOM PLATING, No. } of Strakes 4 }		14.5	12	14.5	"		Double	22	84	3		22	75	"
BIDGE PLATING, No. of } Strakes 1 }		14.5	12	17.5	"		"	22- 19	84- 70	3		22- 19	75- 65	"
SIDE PLATING, No. of } Strakes 3 }		14.5	12	11.5	"		"	"	"	3		"	"	"
UPPER DECK, Sheer- } strake in Wells..... }	2000	18	11.5	11.5	"		"	"	"	4 to 3		"	85- 65	"
UPPER DECK, Sheer- } strake in Bridge ... }		17												
STRAKE BELOW Sheer- } strake in Wells... 1 }	2000	18.5	11.5	11.5	"		"	"	"	"		"	90- 65	"
Second STRAKE BELOW Sheer- } strake in Bridge ... }		14.5			"		"		84					
POOP SIDE PLATING														
BRIDGE SIDE PLATING ...														
FOREC'TLE SIDE PLATING			10.5		"		Single	19	75	Single			65	"

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—		6
Extending to Upper Deck (Sec. 3 c)		6
„ Deck next below		7
As per Rule		7

For further particulars of Bulkheads. Please see Approved plan.	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHD, Upper tween decks	6.5	PL 125x9	770 to 650		
„ „ Second „	7.5	Ang: 120x75x9	700 to 770	Bulkhead seams and stiffeners M. Welded	
„ „ Third „	-	-	-	as approved	
„ „ Holds	12-8	300x11 4 200x15	690 to 610		
COLLISION „ (in Hold)	12.5-8	180x75x 9.5	610		
AFTER PEAK „ „	12.5-7.5	51x3x.35	610		

FORGINGS and CASTINGS.

	Casting or Forging.	Scanlings.	Maker's Name.	Any departure from approved plans to be noted.
				As
KEEL, Bar	Flat Plate			approved
STEM	F.S. 240x64 Mitsui- Stl: Pl: 15 J.R.			"
STERN FRAME { Propeller Post	C.S. Hollow	"		"
{ Rudder "	C.S. Section	"		"
RUDDER—A x D	1.120 M ³	"		"
Speed of Vessel	16 knots.			
RUDDER mainpiece at head ...	F.S. 280m/m Dia			"
" " heel	" 220m/m Dia			"
" " C.S. Arms	Built up.			Balance type.
" how constructed & Edge				As
" double or single plate	Double 12.5 m/m			approved
" coupling, vertical or horizontal	Vertical.			"

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Open Hearth Steel.
Nippon Seitetsu Kaisha, Ltd. (Yawata). Kawasaki Dockyard Co. Ltd., Nippon Kokan Kaisha, Ltd.

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

EQUIPMENT No 3771.										LETTER <i>b7</i>	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.			
1145	1st Bower ...	73	2	4	Stockless			55	15	0	0		Halls CS Head.	Murakami	Oseka.
1146	2nd " ...	73	2	0	"			55	10	0	0		"	Iron Wks.	30-10-34 Y.J.
1147	3rd " ...	76	2	2	"			57	5	0	0		"	"	"
	Collective weight.	223	2	6											
1149	Stream	21	0	22	6	3	24	21	16	1	0	194-2-0	Ordinary	"	" 1-8-34 Y.J.

CHAIN CABLES.										HAWSERS AND WARPS.							
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 58.		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 58.	
	Length.	Diam.	Stations.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.
	Fathoms.	Ins.	Tons.	Tons.	Owts.	grs. lbs.	Owts.	Fathoms.	Ins.				Fathoms.	Ins.	Tons.	Fathoms.	Ins.
2055	150	2 1/16	106.9	5 149 8	480-2-13	720 1/2	3008	16	S.L.	Nippon Mechanical Chain Wks.	Osaka Y.J. 6-7-8, 11, 34	TOWLINE	240M	5	78.7	240M	5
2056	158	"	"	"	515-3-18	"	"	"	"	"	Osaka. 8.9-11-34 Y.J.	HAWSERS & WARPS	40120	3 1/4			
4292A Iron Steam Chain or Steel Wire	225M	5"	58.7				220	5"	F.S.	Nippon Tessenk.K.	Osaka 5-11-34 C.M.	"	40100	8"	Manila.		

Steering Gear, Steam Good & Effidient. (By Uruga Dk Co.) Steering Gear, Hand Good & Efficient.

Boats 8- 28'-0" Life boats.

Boats 4- 26'-0" " Steering Chains, Size and Test / Windlass Steam. Good & Efficient.

Ceiling in Holds, thickness and material 65 m/m wood on 40 m/m batten. Cargo Battens, thickness, material and spacing 150m/m x 50m/m Wood spaced 180 m/m apart.

Cargo Hatchways. (Upper Deck) 4 off Coamings 750m/m Height x 11m/m Thk: with B.A.stiff. on side only. Thickness of Hatches 75 m/m Oregon Pines.

Size of No. 1 Hatchway (Forward) 4.76x3.7 MNo. 26.08x5.5 MNo. 36.08x5.5 MNo. 45.32x5.0 MNo. 5 No. 6 -

Number of Shifting Beams 2 off in No.1 and 3 off in Nos.2,3 & 4.

NAGASAKI WORKS, MITSUBISHI JUKOGYO KABUSHIKI KAISHA.

Builder's Signature *T. Inagaki* GENERAL MANAGER.

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel No (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo No The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been constructed under Special survey in accordance with the terms of the Rules and Approved plans. The materials have been tested found efficient & the workmanship throughout is good.

All double bottom tanks, peak and fresh water tanks have been tested with a head of water to weather deck level and proven sound and tight.

Hold and tween deck bulkheads, weather decks, coamings, side ports, coal scuttles, hatch tarpaulins & W.T.doors in E.R. and B.R. Tween decks and deck house entrance hose tested and found good.

The freeboard has been assigned by the Japanese Government Authority and verification of marking form forwarded herewith. The summer freeboard corresponds to a moulded draft of 6160.5 m/m.

Windlass and steering gear tested and found good. Hand pumps tested and found good.

Life boats loaded, swung out, lowered into water and lifted back into chocks, with ships handling gear and all found satisfactory.

Vessel fitted with cruiser stern and all decks without camber except boat deck.

At half loaded draft full power trials over measured mile ship attained a speed 17.306 knots.

The amount of Entry Fee £ 10-0-0 ; Fees applied for, 1. 4. 19 35

Special Survey Fee £ 462-0-0 ; Received by me, I am of opinion the Vessel should be Classed +100AI with freeboard.

Travelling Expenses, if any £ ¥ 45:00 (Kobe) 10. 4. 19 35

State whether the Vessel has been built under Special Survey Built under Special survey. Signature *T. Buchanan* Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Nagasaki. Date of issue 10/5/35

Committee's Minute **FRI. 10 MAY 1935**

Character assigned + 100 AI

Lloyd's A & C.P. + Linc. 335

W. C. L.

write Mr

July

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.)

Intermediate angle frames fitted between 2nd & 3rd decks and shell plating, thickness increased in way of No.2 & 3 holds tween decks (Owners requirements).

Web frames fitted in Engine & Boiler spaces, also at ends of vessel.

Anchor and cables of increased size in accordance with Owners requirements.

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

Midship Section: Construction profile & deck(3 sheets): W.S.Pillars & Girders: End Construction:

Shell Expansion: Deck House: W.T.Bulkhead: Main Engine Seating: Rudder: Stem: Shaft Bracket: Stern

Frame: Pumping: and also Steel Invoices:.

Forging and casting certificates forwarded herewith.

This vessel is a sister vessel to the T.S.S."Kitsurin Maru" Nagasaki Report No.2014. used to check

Particulars of Drop Test of Cast Steel Anchors, viz.:- Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	41 - 3 - 4.	Y.J.	1145.	18-7-34.
	2nd "	41 - 2 - 26.	"	1146.	"
	3rd "	44 - 0 - 6,	"	1147.	"

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop - ft., R.Q.D. - ft., Bridge - ft., Forecastle 51.5 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, 3 Tr.Beams:

Official No. 40161. ; Signal Letters J.Y.A.H. Is bottom of Vessel coated with cement Yes if not give particulars of composition /

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Ft.	Water Capacity, Tons.	Where Fitted.	*Length. Met.	Water Capacity, Tons.
Double bottom, aft,	33.44	183.1	Fore peak tank, Forward F.No.165.	6.710	32.4
Double bottom, under Engines and Boilers,	15.20	323.4	After peak tank, Aftward F.No.15.	8.540	118.7
Double bottom, if under Engines only,	23.56	153.0	Deep tank, aft,		
Double bottom, if under Boilers only,	39.56	289.4	Deep tank, forward,	4.56	22.2
Double bottom, forward,			Other tanks, if fitted, F.W.Tk in No.4 Hold.	15 ft.	
Total capacity of		948.9	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 115

Date 30-10-1933
London.

Dates of Surveys held while building

1934:- May 17.23.30 June 2.4.8.14.15.21.26.27.29 July 4.10.18.25.30 Aug 1.8.11.17
31 Sep 3.8.25 Oct 13.18.22.23.25.29.30 Nov 2.5.9.10.16.19.20.22.23.27. Dec 4.13.21.27.
1935:- Jan 10.12.14.21 Feb 1.4.6.12.21.25.27 Mar 2.8.9.15.16.20.22.26.30.

Total No. of Visits 66.