

STEEL STEAMER or MOTORSHIP.

25 JAN 5

Received at London Office

State if Report has been sent on the Freeboard of the Vessel *cf*State if Report is sent on the Machinery of the Vessel *Yes*

Date of completion of report

12th December 1934

Port of

Yokohama

No. 5415

Survey held at

Yokohama

Date First Survey

27th October 1933

Last Survey

14th December

1934

On the

(State if Machinery fitted Aft and if Single, Twin or Triple Screw)

SINGLE SCREW MOTORSHIP

NARUTO MARU

State Type

(Full Scantling, Complete Skid structure with or without Tonnage Quirrs)

Full Scantling

State Type of Erections

Prop Br. & File

TONNAGE under
Tonnage Deck

6369

CLASS \pm 100 A1State if with freeboard
as condition of Class

No

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)METRES
L 136.00

Launched

29th Aug 1934

Yard No. 222

Total

6369

Breadth (greatest moulded)

B 19.00

Builders

Yokohama Dock Co. Ltd.

Gross Tonnage

7142

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

D 10.50

Owners

Nippon Yusen K.K.

Register Tonnage

4246

1st Longitudinal Number (L x D) = 15372

Managers

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

REGISTERED DIMENSIONS.

Length 144.7 137.06
Breadth 62.34 19.00
Depth 34.45 10.50Framing Depth "d," at middle of length. See
Sec. 3 (1d)17.84 ES
21.20Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel

12.95

Residence

Port of Registry

Tokio

If surveyed while building, afloat, or in dry dock

Building.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	M M F INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		M M F INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	800		Bracket Floors, Frame	7 3 1/2 525	
" " from 3/4 length to Collision bulkhead	650		" " Reversed Frame	1 5 1/2 3 35	
" " in peaks	600		" " Vertical Struts	1 250 90 90 11	
DE FRAMING.			Centre Girder, depth and thickness amidships	1168 57	
Frame Amidships, Angle, [or]	300 90 90 9/13 ES		" " top Angles	90 90 14	
" " Extends up to	300 90 90 9/13 ALT	ADJACENT	" " bottom Angles	130 130 15	
Reversed Frame Amidships, Angle	UPPER 2nd DEK	ALT	Side Girders, No. each side and thickness	2 42	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	990 55	
Depth of Framing Girder			" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	130 130 12	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	7 3 1/2 525		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	130 130 12	
" " BRIDGE Second 'tween Decks, Angle, [or]	7 3 1/2 525 ALT		" " Gussets, spacing and scantling abaft 1/4 len. from stem	460 45 CONTINUOUS	
" " Third " " "	9 3 1/2 475		" " Gussets, spacing and scantling forward 1/4 len. from stem	HORIZONTAL MARGIN	
Framing in Peaks, Angle, [or]	9 3 1/2 475		Tank Side Brackets, height above base line at toe of Frame and thickness	1803 50	
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	7/8 5 3/4		INNER BOTTOM PLATING.		
State if Frame Joggled	Yes		Breadth and thickness of Middle Line Strake	1372 52	
PLATING ARRANGEMENTS (Sec. 7), state system and particulars	DEEP FRAMES 3 PLATING STRINGERS 44 PLATE 7 x 3 1/2 x 525 A		Thickness of remainder in Holds	44	
STRENGTHENING OF BOTTOM FOR- WARD. State Particulars	BOTTOM PLATING 77 " FRAMES 130 x 130 x 12 ADDITIONAL GIRDER 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	
DOUBLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, [or]	230 90 90 8 5/13	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [or]	230 90 90 8 5/13	
Middle Line Keelson, on Floors, Angles, [or]			" " Spacing	800	
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle, [or]	250 90 90 9/13	
" " Foundation Plate on Floors			" " Spacing	800	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [or]	800	
Side Keelsons, No. each side			" " Spacing		
" " thickness of Intercostal Plate			Fourth Deck, amidships, Angle, [or]		
" " Angles			" " Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, [or]	200 75 10	
Old Floors, thickness and spacing	2400 43		" " Spacing	600	
" " Are Frame and Reversed Frame joggled?	FRAMES YES REV NO		Bridge Deck, Angle, [or]	230 90 90 8 5/13	
Bracket Floors, breadth and thickness at middle line	880 43		" " Spacing	800	
" " breadth and thickness at margin plate	1120 43		Forecastle Deck, Angle, [or]	200 90 90 8 5/13	
			" " Spacing	600 650	

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..... 2									
" in 'tween Decks, Size and Spacing.....	<i>Wide spaced pillars and girders as per approved plan.</i>								
" " " " " "									
" in Holds " "									
" " " " " "									
Centre Line Bulkhead.									
Stiffeners and Spacing.....	<i>INVERTED ANGLE WELDED</i>	7	3 1/2	525	1				
Plating, thickness of			30		1				
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells		1930	1.00		1				
" " " " in way of Bridge		1270	.43		1				
" Angle in Wells		200	200	25	70				
		150	150	17					
Thickness of Plating abreast Deck openings in way of Wells72		1				
Thickness of Plating abreast Deck openings in way of Bridge39		1				
Thickness of Plating within line of openings...			.46		1				
If Sheathed, material and thickness			NO		1				
Second Deck.									
Stringer Plate, breadth and thickness in Wells...		1270	.43		1				
Stringer Plate, breadth and thickness in way of Bridge					1				
Thickness of Plating abreast Deck openings in way of Wells39		1				
Thickness of Plating within line of openings...			.46		1				
If Sheathed, material and thickness			NO		1				
Third Deck.									
Stringer Plate, breadth and thickness.....					1				
If Plated, state thickness.....					1				
Fourth Deck.									
Stringer Plate, breadth and thickness.....					1				
If Plated, state thickness					1				
Poop Deck.									
Stringer Plate, breadth and thickness40		1				
Plating, Sheathing, material and thickness40		1				
Bridge Deck.									
Stringer Plate, breadth and thickness.....		1600	.56		1				
Plating, Sheathing, material and thickness ...		125 x 750 P	.46		1				
		145 x 65 "	.42		1				
					1				
Forecastle Deck.									
Stringer Plate, breadth and thickness.....			.40		1				
Plating, Sheathing, material and thickness40		1				

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 cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	1321	.87	.78	.78	1	DOUBLE	1	4	4R-4R	1	4	LAPPED	
„ DBLG. (if any)													
BOTTOM PLATING, No. of Strakes}		.70	.77	.54	1	“	7/8	3 1/2	4R-3R	7/8	3 1/2	1 “	
BILGE PLATING, No. of Strakes}													
SIDE PLATING, No. of Strakes}		.68	.52	.52	1	“	7/8	3 1/2	3R	7/8	3 1/8	1 “	
UPPER DECK, Sheer-strake in Wells.....}	1300	1.00	.52	.54	1	“	1 1/8	4 1/2	5R-3R	1 1/8	4 1/2	1 “	
DOUBLED ENDS BRIDGE		.80			1								
UPPER DECK, Sheer-strake in Bridge ...}		.68			1	“	7/8	3 1/2	3R	7/8	3 1/8	1 “	
STRAKE BELOW Sheer-strake in Wells.....}	1750	.81			1	“	1	4	4R-3R	1	4	1 “	
STRAKE BELOW Sheer-strake in Bridge ...}		.68			1	“	7/8	3 1/2	3R	7/8	3 1/8	1 “	
POOP SIDE PLATING40		1	SINGLE	3/4	3	1R	3/4	2 5/8	1 “	
BRIDGE SIDE PLATING64			1	DOUBLE	7/8	3 1/2	4R	7/8	3 1/2	1 “	
FOREC'TLE SIDE PLATING			.44		1	SINGLE	3/4	3	1R	3/4	2 5/8	1 “	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	8
" Deck next below	AFTER PEAK STEPPED 0-10 FRS.
As per Rule	

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<i>No 92 BULKHEAD</i>					
MIDSHIP BULKHEAD, Upper tween decks	26-.28	125 x 75 x 9	760		1
" " Second					
" " Third					
" " Holds	30-.41	250 x 90 x 9 1/2	760		1
COLLISION	30-.52	9 x 32 x 475	610		1
AFTER PEAK	30-.77	9 x 32 x 475	550		1

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
UPPER	PLATE	.72	Yokohama	
STEM	FORGING	260 x 70	Dock Co	
LOWER				
STERN FRAME { Propeller Post	CASTING	PLAN	Oshima Steel Wks.	
Rudder	FORGING	270	ditto.	
RUDDER—A x D.....				
Speed of Vessel.....		15 KNOTS		
RUDDER mainpiece at head...				
" STOCK	FORGING	280	Oshima Steel Wks.	
" how constructed		STREAM LINE		
" double or single plate		SIMPLEX TYPE		
" coupling, vertical or horizontal.....		DOUBLE HORIZONTAL		

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	<i>Imperial Steel Wks. Japan. Rippou Kokan L.K. Satchifangshutte abt. Oberhausen. Open hearth process</i>
	Has the Steel been tested as required by the Rules? <i>Yes.</i>

EQUIPMENT NO 45385 ✓												LETTER C+		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.			
1117	1st Bower ...	78	0	23	'			57	17	2	0	'	Halls improved	Kobe Steel Wks	Kobe 15/2/34 H.C. Barnett
1118	2nd „ ...	78	0	22	'			57	17	2	0	'	"	"	"
1119	3rd „ ...	78	0	11	'			57	17	2	0	'	"	"	"
	Collective weight.														
1103	Stream	22	1	7	6	0	10	22	13	0	14		Admiralty Type	"	Kobe 1/2/34 H.C. Barnett

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.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.	Length.	Cir.					Length.	Cir.			
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
2035	302	2 7/16	106 9/10	149 5/8	983.0	19					Stud link	Osaka Chain Works	Osaka 16/8/34 Y. Jo.	TOWLINE...	130	5 1/4	83.42	-	
														HAWSERS & WARPS	3 @ 100	3			
		Cir.								Cir.				"	3 @ 100	2 3/4			
Iron Stream Chain or Steel Wire	120	4 1/2		64.55							Tokio Seiko.	Kawasaki 14/2/34 J. F. Nicholas		"	4 @ 100	8			

Steering Gear, Steam *Electric efficient.* Steering Gear, Hand *Quadrant geared to main quadrant.*
 Boats 1 *Lemna 5990 x 1700 x 680* Steering Chains, Size and Test *—* Windlass *Electric efficient.*
 Ceiling in Holds, thickness and material *2 1/2 w.w.* Cargo Battens, thickness, material and spacing *150 x 50 SPACED 180 m.m.*
 Cargo Hatchways.—(Upper Deck) *44 x 610* Thickness of Hatches *75 m.m. in tween decks.*
 Size of No. 1 Hatchway (Forward) *5850 x 5000* No. 2 *11200 x 6100* No. 3 *9600 x 6100* No. 4 *8000 x 6700* No. 5 *11200 x 6100* No. 6 *7200 x 5500.*
 Number of Shifting Beams and/or Fore and Afters *ALL WEATHER DECK HATCH COVERS OF STEEL "MACHANKING" PATENT AS PER APPROVED PLAN.*

Builder's Signature *S. Tennant*

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.
The double bottom tanks and wing tanks aft have been fitted to carry oil fuel with flash point above 150° F.
Cargo oil tanks have been fitted in No 4 hold.
The vessel has been built in accordance with the approved plans.
The workmanship and materials are good.
All weather decks, watertight bulkheads doors and shaft tunnels have been hose tested and found watertight.
A copy of the midship section of the vessel as built also copies of forging casting and steel testing certificates are enclosed.
Wireless fitted.

The amount of Entry Fee £ 10 : 0 : 0 Fees applied for, *20-12-1934*
 Special Survey Fee.... £473 : 4 : 0 Received by me, *25-4-1935*
 Travelling Expenses, if any *21/-* : *25-4*
 ROBE 25-
 State whether the Vessel has been built under Special Survey *Yes.* Signature *C. A. McClashan.*
 Certificate to be sent to *Tokohama* Date of issue *31/1/35* Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Character assigned

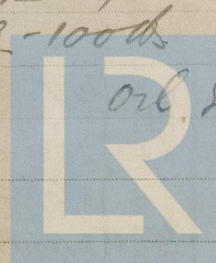
Due 29 Jan 1935
+ 100 m

Carrying cargo oil 2. above 150° F. in deep tanks

White 2/2

Rudder electrically welded.
Lloyd's ar. 12-34
S.B. 1000

My



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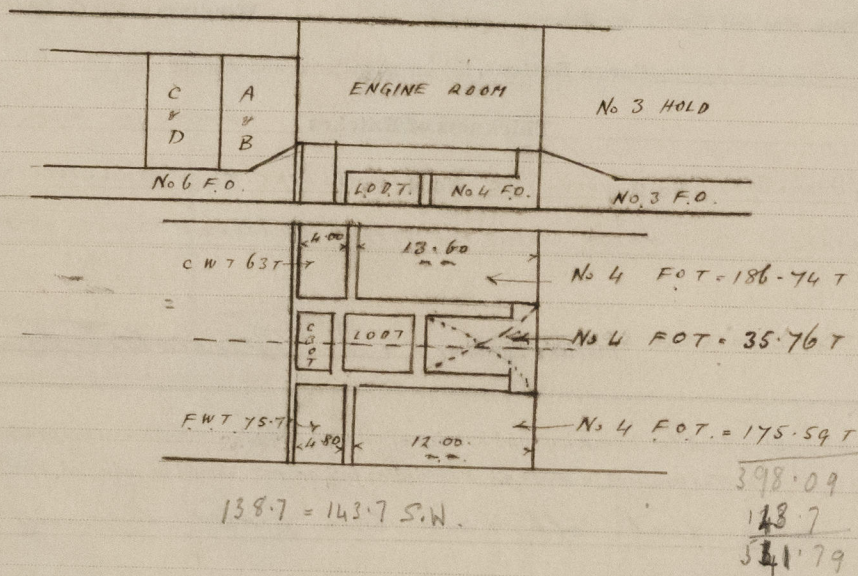
Lloyd's Register
 Foundation

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.)

Sister vessel NAGARA MARU Report No. 5350.
NAKO MARU " 5384.

345.63 T	D	B	= 341.88
325.53 T	C	A	= 327.65

DEEP TANKS CARGO OIL



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

1st Bower	43.3.16	HAG 1117	15/2/34
2nd "	44.0.1	1118	"
3rd "	44.2.2	1119	"
	21.1.24	1103	1/2/34

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 23.23 ft., R.Q.D. ft., Bridge 173.24 ft., Forecastle 40.58 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated NO

Rudder electrically welded. Carrying cargo oil in deep tank F.P. above 150°F. Cruiser stern

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 2 DECKS STEEL

Official No. 39378 : Signal Letters J.B.Q.H.

Is bottom of Vessel coated with cement clo 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,	168	32.80	Fore peak tank,	8.20	71.66
Double bottom, under Engines and Boilers,	-	-	After peak tank,	6.00	68.45
Double bottom, if under Engines only, SEE SKETCH	-	-	Deep tank, aft,	-	-
Double bottom, if under Boilers only,	-	-	Deep tank, forward,	-	-
Double bottom, forward,	183	55.65	Other tanks, if fitted, WING TANKS AFT F.O.	7.20	94.45
	63	110.17	(If necessary, furnish further information by sketch.)	-	-
	354	541.79		-	-
		1651.96		-	-

Order for Special Survey No 28

Date Feb. 1933.

Dates of Surveys held while building

24/10/33, 31/10/11, 8/11, 15/11, 20/11, 1/12, 8/12, 19/12, 10/1/34, 15/1, 24/1, 30/1, 5/2, 9/2, 13/2, 19/2, 22/2, 8/3, 14/3, 15/3, 19/3, 22/3, 26/3, 30/3, 6/4, 10/4, 14/4, 19/4, 26/4, 8/5, 11/5, 26/5, 30/5, 31/5, 4/6, 12/6, 18/6, 28/6, 6/7, 10/7, 11/7, 13/7, 14/7, 19/7, 29/7, 30/7, 1/8, 8/8, 10/8, 11/8, 14/8, 20/8, 24/8, 25/8, 27/8, 29/8, 6/9, 17/9, 19/9, 10/10, 24/10, 30/10, 17/11, 24/11, 27/11, 29/11, 30/11, 4/12/34.

Total No. of Visits 70.