

STEEL STEAMER or MOTORSHIP.

Received at London Office 4 OCT 1934

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 Sept. 1934*Port of *Yokohama*No. *5350*Survey held at *Yokohama*Date First Survey *28th March 1933*Last Survey *28th August 1934*On the *(State if Machinery fitted Aft and if Single, Twin or Triple Screw)**SINGLE SCREW MOTORSHIP**"NAGARA MARU"*State Type *(Full Scantling Complete Superstructure)**Full Scantling*State Type of Erections *Prof. Br. & Fcl.*

TONNAGE under Tonnage Deck

*6368.99*CLASS *100A1*State if with freeboard as condition of Class *NO METRES*Built at *Yokohama*

Do. of space or spaces between Tonnage Dk. and Upper Dk.

0

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

*L 136.00*Launched *28th April 1934* Yard No. *220*

Total

6368.99

Breadth (greatest moulded)

*B 19.00*Builders *Yokohama Dock Co. Ltd.*

Gross Tonnage

7142.28

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 *Rippon Yusen K.K.*

Register Tonnage

*4246.29*1st Longitudinal Number (L x D) = *15,372*

Managers

*(Where necessary to be entered in Reg. Book.)*2nd Numeral L x (B + D) = *43,190*

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

17.84 ES

Residence

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

*12.95*Port of Registry *Tokio*

Do. Long Bridge to top of keel

10.50

If surveyed while building, afloat, or in dry dock

Draught Moulded

*8.35**Building*

FRAMES, DOUBLE BOTTOM AND BEAMS.

	M.M. & INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	M.M. & 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	9 5 1/2 3 .35
" " in peaks	600		" " Vertical Struts	7 250.90.90.11
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1168.57
Frame Amidships, Angle, [or]	300.90x90x9/16 E.S.		" " top Angles	90 90 14
" " Extends up to	300x90x90x12/16 ADJACENT / UPPER 2nd DKS ALT.		" " bottom Angles	130 130 15
Reversed Frame Amidships, Angle			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
" " 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 amidships	7/8 5 1/2		INNER BOTTOM PLATING.	
State if Frame Joggled	Yes.		Breadth and thickness of Middle Line Strake	1372 .52
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	DEEP FRAMES 3 PANTING STRINGERS 44 PLATE 7 x 3 1/2 x .525 A.		Thickness of remainder in Holds	44
STRENGTHENING OF BOTTOM FORWARD. State Particulars	BOTTOM PLATING - 77 " FRAMES 130x130x12 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
SINGLE BOTTOM.			BEAMS.	
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Walls, Angle, [or]	230.90.90.8.5/13.5
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [or]	230.90.90.8.5/13.5
Middle Line Keelson, on Floors, Angles, [or]			Spacing	800
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle, [or]	250.90.90.9/16
" " Foundation Plate on Floors			Spacing	800
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [or]	
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
Solid Floors, thickness and spacing	2400 .43		Spacing	600
" " Are Frame and Reversed Frame joggled?	FRAME YES REV. NO		Bridge Deck, Angle, [or]	230.90.90.8.5/13.5
Bracket Floors, breadth and thickness at middle line	880 .43		Spacing	800
" " breadth and thickness at margin plate	1120 .43		Forecastle Deck, Angle, [or]	200.40x90.8.5/13.5
			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					Stringer Plate, breadth and thickness in way of Bridge	1270	38		
" in 'tween Decks, Size and Spacing.....	<i>Wide spaced pillars and girders as per approved plan.</i>				Thickness of Plating abreast Deck openings in way of Wells		39		
" " " " " "					Thickness of Plating abreast Deck openings in way of Bridge		34		
" in Holds " "					Thickness of Plating within line of openings...		34		
" " " " " "					If Sheathed, material and thickness		NO		
Centre Line Bulkhead.					Third Deck.				
Stiffeners and Spacing.....	<i>INVERTED ANGLE WELDED</i>			7 3 1/2 .525	Stringer Plate, breadth and thickness.....				
Plating, thickness of				30	If Plated, state thickness.....				
STRINGERS AND DECKS.					Fourth Deck.				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....				
Stringer Plate, breadth and thickness in Wells	1930	1.00			If Plated, state thickness				
" " " " in way of Bridge	1270	.43			Poop Deck.				
" Angle in Wells	200 150	200 150	25 17		Stringer Plate, breadth and thickness		40		
Thickness of Plating abreast Deck openings in way of Wells72	Plating, Sheathing, material and thickness ..		40		
Thickness of Plating abreast Deck openings in way of Bridge39	Bridge Deck.				
Thickness of Plating within line of openings...				.46	Stringer Plate, breadth and thickness.....	1600	.56		
If Sheathed, material and thickness				NO	Plating, Sheathing, material and thickness46	.42	125 x 75 O.P. EXPOSED	145 x 65 ACCOMMODATION
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...	1270	.43			Stringer Plate, breadth and thickness.....		40		
					Plating, Sheathing, material and thickness ...		40		

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	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		DOUBLE	1	4	4R-4R	1	4	LAPPED	
„ DBLG. (if any)													
BOTTOM PLATING, No. of Strakes5....		.70	.77	.54		"	7/8	3 1/2	4R-3R	7/8	3 1/2	"	
BILGE PLATING, No. of Strakes													
SIDE PLATING, No. of Strakes4....		.68	.52	.52		"	7/8	3 1/2	3R	7/8	3 1/8	"	
UPPER DECK, Sheer-strake in Wells.....	1300	1.00	.52	.54		"	1 1/8	4 1/2	5R-3R	1 1/8	4 1/2	"	
DOUBLED ENDS BRIDGE		.80											
UPPER DECK, Sheer-strake in Bridge68				"	7/8	3 1/2	3R	7/8	3 1/8	"	
STRAKE BELOW Sheer-strake in Wells.....	1750	.81				"	1	4	4R-3R	1	4	"	
STRAKE BELOW Sheer-strake in Bridge68				"	7/8	3 1/2	3R	7/8	3 1/8	"	
POOP SIDE PLATING40		SINGLE	3/4	3	1R	3/4	2 5/8	"	
BRIDGE SIDE PLATING64				DOUBLE	7/8	3 1/2	4R	7/8	3 1/2	"	
FORECASTLE SIDE PLATING			.44			SINGLE	3/4	3	1R	3/4	2 5/8	"	

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 FRAMES

As per Rule

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	LOWER	FORGING	260 x 70	Do. do.	
STERN FRAME {	Propeller Post	CASTING	AS APPROVED PLAN	Oshima Steel Works	
	Rudder SHAFT	FORGING	270	ditto	
RUDDER—A x D					
Speed of Vessel			15 KNOTS		
RUDDER mainpiece at head ...					
" STOCK	FORGING	280	Oshima Steel Works		
" how constructed			STREAM LINE		
" double or single plate			SIMPLEX TYPE		
" coupling, vertical or horizontal					

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Asano S. B. Co.

Imperial Steel Works, Japan. Rippun Kohan H.K. Satchhoffnungshutte ctt. Oberhausen.

Open hearth process

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

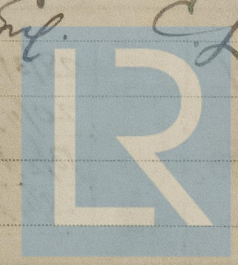
EQUIPMENT No. 45385												LETTER CT		ANCHORS.	
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
1114	1st Bower ...	78	0	27	/			57	17	2	0	/	Stockless	Kobe Steel Wks	Kobe 13.2.34 H. C. Barnett
1115	2nd „ ...	78	1	27	/			57	17	2	0	/	“	“	“ „ „
1116	3rd „ ...	78	1	25	/			57	17	2	0	/	“	“	“ „ „
	Collective weight.														“ „
1104	Stream	22	0	22	6	0	9	22	11	1	0	/	Stock	“	“ 26.2.34

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.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.	Length.	Cir.					Length.	Cir.			
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
1989	303 1/2	2 7/16	106 1/2	149 5/8	963	0	4				Stud link	Osaka Chain Wks	Osaka 29.11.33 J. P.	TOWLINE...	130	5 1/4	78.76	✓	
														HAWSERS & WARPS	3@100	3	✓		
														"	3@100	2 3/4	✓		
Iron Stream Chain or Steel Wire	120	4 1/2		59.55								Tokio Seiko	Kawasaki 10/2/34 J. F. Nicholas	"	4@100	8	✓		

Steering Gear, Steam *Electric efficient.* Steering Gear, Hand *Quadrant geared to main quadrant.*
Boats 1 *Donna 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 mm.*
Cargo Hatchways.—(Upper Deck) *44 x 610* Thickness of Hatches *75 mm 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, "HACKANKING" PATENT & AS APPROVED PLAN.*
Builder's Signature *S. Tsumakawa.*

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.

Similar to Mitsubishi 580-1-2. *Similar to same builders 222 + Mroga 388.*
The amount of Entry Fee £ 10 : 0 : 0 Fees applied for, *8.9.1934*
Special Survey Fee.... £ 473 : 4 : 0 Received by me, *3.12.1934*
Travelling Expenses, if any £ YKa : 38 yen
State whether the Vessel has been built under Special Survey *Yes.* Signature *A. W. Slaskan.*
Certificate to be sent to *Yokohama* Date of issue *15/10/34*
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 12 OCT 1934*
Character assigned *+100A1*
Carrying Cargo oil S.P. above 150°F in Deep Tanks
Lloyd's A.R.C.P. *+Lmb. 8.34*
Rudder Electrically welded *D.B. -1000*
Oil Eng. C.L.
My

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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.)

PILLARS, No.

in

in

in

in

Centre Lin
Stiffeners

Plating, th

STRINGERS
Uppermost
Stringer F

Thickness
in way

Thickness
in way

Thickness

If Sheath

Second D
Stringer

STRA

AT PLATE

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of Strakes

GE PLAT
Strakes

DE PLAT
Strakes

PER DEC
strake in

PER DEC
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UP SIDE

DGE SID

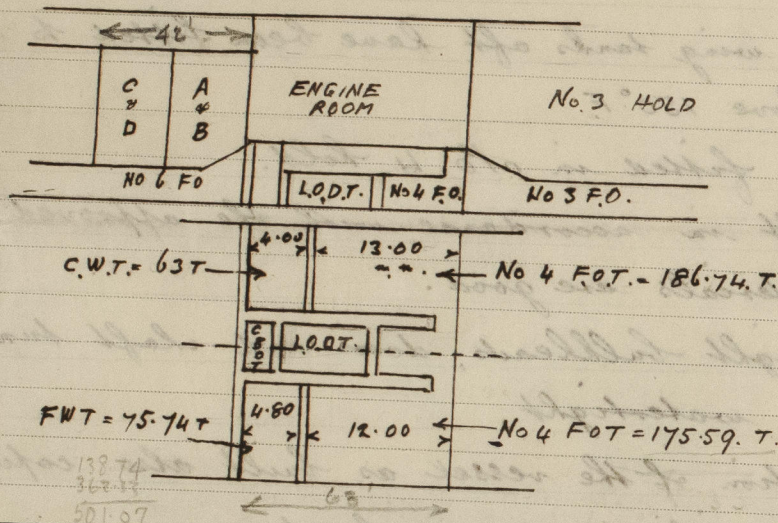
EC'TLE

Cal No.

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	44.1.11	H.A.G.	1114	13.1.34
2nd "	44.1.13	"	1115	25.1.34
3rd "	44.1.14	"	1116	25.1.34
Stream	21.1.11	"	1104	27.12.33

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

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

Official No. 39666 ; Signal Letters J.B.N.H.

particulars of composition If bottom of Vessel coated with cement NO if not give

PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
Double bottom, aft,	108	32.80	Fore peak tank,	8.20	71.66
Double bottom, under Engines and Boilers,	SEE SKETCH	419.49	After peak tank,	6.00	68.45
Double bottom, if under Engines only,	SEE SKETCH		Deep tank, aft,	SEE SKETCH	
Double bottom, if under Boilers only,	183	55.65	Deep tank, forward,		
Double bottom, forward,	291	690.68	Other tanks, if fitted, WING TANKS AFT F.O. 24	7.20	9.4.43
		Total capacity of double bottom 1110.17	(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. 27

Date 27 Feb. 1933.

Dates of Surveys held while building

28/3/33, 5/4, 10/4, 13/4, 7/6, 5/7, 12/8, 2/8, 23/8, 30/9, 5/10, 13/10, 21/10, 31/10, 1/11, 8/11, 11/11, 15/11, 20/11, 22/11, 27/11, 1/12, 8/12, 19/12, 10/1/34, 12/1, 15/1, 16/1, 24/1, 26/1, 30/1, 31/1, 5/2, 7/2, 9/2, 13/2, 19/2, 22/2, 23/2, 27/2, 5/3, 8/3, 12/3, 14/3, 15/3, 16/3, 19/3, 22/3, 26/3, 30/3, 5/4, 7/4, 10/4, 23/4, 26/4, 28/4, 19/5, 30/5, 4/6, 10/6, 14/6, 19/6, 29/6, 1/8, 14/8, 23/8, 24/8, 25/8, 27/8, 28/8

Total No. of Visits 10