

STEEL STEAMER or MOTORSHIP.

Received at London Office 27 SEP 1932

State if Report has been sent on the Freeboard of the Vessel Yes (Kobe).

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

Date of completion of report 26th August 1932.

Port of NAGASAKI.

No. 1845

Survey held at NAGASAKI.

Date First Survey 5th November 1931

Last Survey 6th August 1932 19

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

Steel Screw Steamer "NAGAYA MARU".

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings)

Full Scantling.

State Type of Erections

Poop, Bridge, & Forecastle.

TONNAGE under Tonnage Deck...

5,280.66

CLASS

*100 AI.

State if with freeboard as condition of Class

No

Built at Nagasaki.

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

Total

5,280.66

Gross Tonnage

6,049.31

Register Tonnage

3,729.01

REGISTERED DIMENSIONS.

FEET.

Length

406.8

Breadth

55.5

Depth

32.5

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

L 405.0

Breadth (greatest moulded)

B 55.5

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

D 32.5

1st Longitudinal Number (L x D) = 13162.5

2nd Numeral L x (B + D) = 35,640

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

20.3

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

12.46

Do. Long Bridge to top of keel

10.06

Draught Moulded

26'-.01"

While Building.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	or m/m INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		or m/m INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	33"		Bracket Floors, Frame	B.A. 7" 3 1/2" .425"	✓
" " from 3/4 length to Collision bulkhead	27"		" " Reversed Frame	B.A. 180 75 9.5	✓
" " in peaks	24"		" " Vertical Struts	Ch. 12"x3 1/2"x3 1/2" .50/.60"	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	45 1/2" .54-.44"	✓
Frame Amidships, 230x90x90x10 & 300x90x90x11.5	230x90x90x10 & 300x90x90x11.5	✓	" " top Angles	D.A. 90 90 13-12	✓
" " Extends up to	U.D or B.D.		" " bottom Angles	D.A. 100 100 14.5-13.5	✓
Reversed Frame Amidships, Angle	90 90 10		Side Girders, No. each side and thickness	One .40	✓
" " Extends up to	to 2nd Dk		Margin Plate depth (excl. of flange) and thickness	43 1/2" above top of keel	✓
Depth of Framing Girder	230 m/m		" " Vertical Angle to Tank side Bracket abaft 15% len. from stem	90 90 10.5	
Frames in Uppermost Continuous 'tween Decks, Angle, [23]	230x90x90x10 & 150 90 10 at alt frames.		" " Vertical Angle to Tank side Bracket forward 15% len. from stem	130 130 10.5	
" " Second Deck to Deck	300x90x90x11.5 & 190x90x100x11.5 at alt frames		" " Gussets, spacing and scantling abaft 15% len. from stem	150 150 11 Every frame	
" " Third			" " Gussets, spacing and scantling forward 15% len. from stem	150 150 11 Every frame	
Framing in Peaks, Angle [23]	8 3 1/2 .45	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	68" .50"	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 6 dias		INNER BOTTOM PLATING.		
State if Frame Joggled	Yes		Breadth and thickness of Middle Line Strake	51 1/2" .50-.42"	
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	Deep Frame Arrangement Main frames 300x90x90x10/13 Ch. extends to U.D. 1st Dk. where fitted, web cut down to form 210x90x104 between U & 2nd Dk. & between U & 2nd Dk at alt frames. Reverse angle 4"x3 1/2" 40BEAMS. fitted below 2nd Dk. Girder depth 320 m/m. Add int. side girders fitted 8'-0" apart and add 2 ht. side girders extend as far as practicable. Three spaces of shell plating next to keel maintained .66 forward.		Thickness of remainder in Holds	.44-.40 & .38	
TRENGTHENING OF BOTTOM FORWARD. State Particulars			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	
INGLE BOTTOM.			7" x3x3x.375" aft-8, 17-26, 121-stem.		
Floors, Depth and thickness at mid-line in Holds			8" x3x3x.42 (10-16, 27-37, 49-54, 77-119)		
Height of Brackets at side above base line at toe of frame			8" x3x3x.375" (38-48, 55-76, 91-95, 104-114)		
Middle Line Keelson, on Floors, Angles, [or [200x90x90x10.5/13.5		
" " Through Plate or Intercoastal Plate			Every frame.		
" " Foundation Plate on Floors			8" x3x3x.375"		
" " Flat Plate Keel Angles			200x90x90x10.5/13.5 & 11/13.5		
Side Keelsons, No. each side			Every frame		
" " thickness of Intercoastal Plate					
" " Angles					
DOUBLE BOTTOM.					
Solid Floors, thickness and spacing			Poop Deck, 180 75 9.5	180 75 9.5	✓
" " Are Frame and Reversed Frame joggled?	Frame only		Spacing	Every frame	
Bracket Floors, breadth and thickness at middle line	33" .51" Blr.room.		Bridge Deck, 8" x3x3x.375"	8" x3x3x.375"	✓
" " breadth and thickness at margin plate	33" .51"		Spacing	Every frame	
			Forecastle Deck 200x90x90x10.5/13.5	200x90x90x10.5/13.5	✓
			Spacing	Alt. frame	

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.....		Widely		Stringer Plate, breadth and thickness in way of Bridge	47½	.34	
„ in 'tween Decks, Size and Spacing.....		Spaced		Thickness of Plating abreast Deck openings in way of Wells36	.34 & .32	
„ „ „ „ „		Pillars.		Thickness of Plating abreast Deck openings in way of Bridge30		
„ in Holds „ „				Thickness of Plating within line of openings.....	.32 & .30		
„ „ „ „ „				If Sheathed, material and thickness			
Centre Line Bulkhead.				Third Deck.			
Stiffeners and Spacing.....				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	58	.85-.50		If Plated, state thickness			
„ „ „ „ in way of Bridge		.40		Poop Deck.			
„ Angle in Wells	150	150 21.5		Stringer Plate, breadth and thickness	36	.36	
Thickness of Plating abreast Deck openings in way of Wells62 to .44		Plating, Sheathing, material and thickness ..	.26	2½" O.P.	
Thickness of Plating abreast Deck openings in way of Bridge36		Bridge Deck.			
Thickness of Plating within line of openings...		.41 .40 & .34		Stringer Plate, breadth and thickness.....	72	.49	
If Sheathed, material and thickness		Deck composition in way of Bridge.		Plating, Sheathing, material and thickness ..	.36 where sheathed. .44	2½" O.P.	
Second Deck.				Forecastle Deck.			
Stringer Plate, breadth and thickness in Wells...	47½	.40-.36		Stringer Plate, breadth and thickness.....	35	.36	
				Plating, Sheathing, material and thickness ..	.30	3" O.P.	

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	50	.81 ✓	.71	.71 ✓		Double	7/8	3 2/3 ✓	4	1	3 2/3 ✓	Strapped
„ DBLG. (if any)						✓						
BOTTOM PLATING, No. of Strakes66	.62	.52 ✓		Double	7/8	3 1/3 ✓	4-3	7/8	3 1/2 ✓	Lapped
BILGE PLATING, No. of Strakes66 ✓			3 strakes next to keel maintained .66 forward.	"	"	"	"	"	3 1/2 ✓	"
SIDE PLATING, No. of Strakes66 ✓	.44 ✓	.46 ✓		"	7/8	"	3	"	3 1/2 ✓	"
UPPER DECK, Sheer- strake in Wells.....	60	1.14 ✓	.90	.90 ✓		"	1 1/2	4 1/2 ✓	5-4	1 1/2	5 & 4 1/2 ✓	"
UPPER DECK, Sheer- strake in Bridge72	D.P. at Bridge Ends.			"	7/8	3 1/3 ✓	3	7/8	3 1/2 ✓	"
STRAKE BELOW Sheer- strake in Wells.....		.72 ✓	.54	.54		"	"	"	4-3	"	3 1/2 ✓	"
STRAKE BELOW Sheer- strake in Bridge66				"	"	"	3	"	3 1/2 ✓	"
POOP SIDE PLATING38 ✓		Single ✓	3/4	3	Single	3/4	2 5/8	"
BRIDGE SIDE PLATING59 ✓				Double	7/8	3 1/3	3	7/8	3 1/2 ✓	"
FOREC'TLE SIDE PLATING			.42 ✓			Single	3/4	3	Single	3/4	2 5/8	"

WATERTIGHT BULKHEADS.

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

For particulars of remaining bulkheads please see approved plan.

	Plating Thickness.	STIFFENERS.	
		VERTICAL.	HORIZONTAL.
		Scantlings/Spacing.	Scantlings/Spacing.
MIDSHIP BULKHEAD, Upper tween decks	98 .27	Flat bar	125x9 30-30½
„ „ Second „			
„ „ Third „			
„ „ Holds	98 .49	8x3x3x.375 Ch.	7x3x.375 A
COLLISION „ (in Hold)52	8x3x3x.375 Semibox beams	200x75x10 plate 48x.34
AFTER PEAK „ „51	180x75x9.5	150x90x9 A 24

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Forged			
STEM	& C.S.	10x2½	Nag.Wks. Mitsubishi Z.K.	
STERN FRAME { Propeller Post	C.S.		As per Kobe Stl Wks. approved plan.	
{ Rudder „	C.S.		"	
RUDDER—A x D		488		
Speed of Vessel		13 knots		
RUDDER mainpiece at head ...	F.S.	10½	Kobe Stl Wks.	
„ „ heel ...		8½		
„ „ how constructed	Built - Stream line.			
„ „ double or single plate coupling, vertical or horizontal.....		.50		

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) **Open Hearth Process.**
Imperial Steel Works, Yawata, Japan.
 Has the Steel been tested as required by the Rules? **Yes.**

EQUIPMENT No. 37652.												LETTER at	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.					
1070	1st Bower ...	68	0	4	--			52	15	2	14		Stockless	Sumitomo Steel Wks. Osaka.	15-2-32 Y. Jo.		
1071	2nd „ ...	67	3	12				52	12	2	0		"	"	"	"	
1072	3rd „ ...	67	1	8				52	7	2	0		"	"	"	"	
	Collective weight.	203	0	24								194½					
1064	Stream	19	1	24	5	2	14	20	6	1	0	19	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- ing.	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.	
1846	240 ¹ / ₆	2 ⁵ / ₁₆	96 ¹ / ₂	134 ¹ / ₂	687	2	19	720 ³ / ₄	270	2 ⁵ / ₁₆	SL.	Nippon Mechanical Chain Wks.	Osaka. 5-2-30 9-2-30 10-2-30	Y. Jo.	TOWLINE...	120	4 ³ / ₈	66.0	120	4 ³ / ₈
1839	30 ¹ / ₆	"	"	"	84	2	27				"	"	15-12-31	Y. Jo.	HAWSERS & WARPS	2090	8"		180	8
					72	1	18									2090	7		180	7
Iron Stream Steel Wire	90	5"			53.0				90	5										

Steering Gear, Steam **Brown Bros Wilson Pirrie Steering Gear** Steering Gear, Hand **Yes**

Boats **3- 20 ft Lifeboats.** Steering Chains, Size and Test **/** Windlass **Harima Dock.**

Ceiling in Holds, thickness and material **2½" Soft wood on 1½" battens** Cargo Battens, thickness, material and spacing **6"x2" Soft wood spaced 9" apart.**

Cargo Hatchways.-(Upper Deck) **Macanking Patent Hatchways.** Thickness of Hatches **.34" Steel plate.**

Size of No. 1 Hatchway (Forward) **27'0" x 18'0"** No. 2 **33'0" x 20'0"** No. 3 **16'6" x 20'0"** No. 4 **33'0" x 20'0"** No. 5 **30'3" x 20'0"** No. 6 **/**

Number of Shifting Beams and/or Fore and Afters **/**

NAGASAKI WORKS, MITSUBISHI ZOSEN KAISHA, LTD.
J. Motora
GENERAL MANAGER.

Builder's Signature

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 built in accordance with the Rules and approved plans.

The materials and workmanship are good.

The Fore & Aft peak tanks, F.W.tank in engine room, Double bottom tanks, weather decks, gutterways and W.T.Bulkheads have been satisfactorily tested.

The freeboard has been verified and the freeboard marks have been clearly indicated by centre punch marks on the vessel's side.

Plans sent under separate cover:- Midship Section. Construction Profile & Deck. W.T.Bulkhead. W.S.Pillars & Girders. Deck House. Shell Expansion. Stem. Stern Frame & Rudder. Pumping. Certificates of Castings and Forgings herewith.

The amount of Entry Fee £ **135:69.** Fees applied for, **12. 8. 1932**

Special Survey Fee.... £ **7148:81.** Received by me, **25. 8. 1932**

Freeboard. £ **180:00**

Derriak booms £ **60:00**

Travelling Expenses, if any £ **36:00**

Expenses. £ **49:00**

I am of opinion the Vessel should be Classed ***100 AI.**

State whether the Vessel has been built under Special Survey **Yes** **Kobe.**

Certificate to be sent to **Nagasaki.** Date of issue **4/10/32.**

Signature *George Amerson*
Surveyor to Lloyd's Register of Shipping.

Committee's Minute **TUE. 4 OCT 1932**

Character assigned **+ 100 AI**

Write Kob *Lloyd's arcl,* *+ Lmb 8, 32*

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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.)

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

1st Bower.	40 cwt.	3 qrs.	21 lbs.	Y.J.	1070.	14-1-32.
2nd "	40 "	3 "	11 "	Y.J.	1071	14-1-32.
3rd "	40 "	2 "	4 "	Y.J.	1072	6-2-32.
Stream.	18 "	2 "	8 "	Y.J.	1064	13-11-31.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop **30.9** ft., R.Q.D. **--** ft., Bridge **137.5** ft., Forecastle **39.9** 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) **2 Dks-Stl.**

Official No. **37699** ; Signal Letters **J.J.D.E.** Is bottom of Vessel coated with cement **Yes** 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,	112.75	288.9	Fore peak tank,	20.2	93.9
Double bottom, under Engines and Boilers,	82.50	394.0	After peak tank,	18.8	132.8
Double bottom, if under Engines only,	/	/	Deep tank, aft,	/	/
Double bottom, if under Boilers only,	/	/	Deep tank, forward,	/	/
Double bottom, forward,	153.0	520.3	Other tanks, if fitted, F.W. tank in E.Rm.	8.25	36.02
	Total capacity of double bottom	1203.2	(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. **102**

Date **29th June 1931.**
London.

Dates of Surveys held while building

1931. Nov 5.7.10.18.19.21 Dec 4.16.17.19.22.23.28.
1932. Jan 7.9.13.19.26.28.29 Feb 3.5.9.10.12.13.15.18.19.22.24.27 Mar 7.8.
11.14.23.24.26.28.30 Apr 1.8.9.13.16.19.20.21.22 May 4.5.13.23 June
8.11.15.20.22.24.25.27.28.29 July 4.9.18.21.23.25.27.28.29 Aug.1.4.6.

Total No. of Visits **77**.