

STEEL STEAMER or MOTORSHIP.

Received at London Office

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 10th December 1937.

Port of NAGASAKI.

No. 2324

Survey held at NAGASAKI

Date First Survey 18th February 1937 Last Survey 30th November 1937

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

Steel Single Screw Motor Vessel "ASA K A M A R U"

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

Full Scantling.

State Type of Erections

Poop, Bridge, Forecastle.

TONNAGE under Tonnage Deck... 6,550.60

CLASS ~~M~~100AI

State if with freeboard as condition of Class

No

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)

Metres

L 140.0

Launched 7th July 1937 Yard No. 687.

Total 6,550.60

Breadth (greatest moulded) B 19.0

Builders Mitsubishi Jukogyo K.K.

Gross Tonnage 7,398.36

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 10.5

Owners Nippon Yusen K.K.

Register Tonnage 4,327.87

1st Longitudinal Number (L x D) = 1470

Managers /

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

2nd Numeral L x (B + D) = 4130

Residence Tokyo.

REGISTERED DIMENSIONS.

FEET.

Length (141.02 m) 462.66

Framing Depth "d," at middle of length. See Sec. 3 (1d) 5.77

Breadth (19.0) 62.34

Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.33

Port of Registry Tokyo.

Depth (10.5) 34.45

Do. Long Bridge to top of keel 10.81

If surveyed while building, afloat, or in dry dock

Draught Moulded

8.34

While Building.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP. or m/m	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP. or m/m	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	800 ✓	As Approved	Bracket Floors, Frame	B.A. 8" 31" .45 ✓	AS Approved
" " from $\frac{3}{8}$ length to Collision bulkhead	650 ✓	"	" " Reversed Frame	B.A. 180 75 9.5 ✓	"
" " in peaks	600 ✓	"	" " Vertical Struts	B.A. 180 75 9.5 & Ch. 250x90x90x9/13 ✓	"
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1170x13.5-11.5 ✓	"
Frame Amidships, Angle [xxx]	300x90x90x11.5 ✓	"	" " top Angles	90 90 12 ✓	"
" " Extends up to	Upper & 2nd Dk Alt'y. ✓	"	" " bottom Angles	130 130 13.5 ✓	"
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	One 9.5 ER 11.5 ✓	"
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	995x14 ✓	"
Depth of Framing Girder			" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	130 130 12 ✓	"
Frames in Uppermost Continuous 'tween Decks, Angle [xxx]	Main Frs cut to 200x90x11.5 & Hold Fr. Alt'y. ✓	"	" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem	250x250x13 Tee B. ✓	"
" " Second 'tween Decks, Angle [xxx]	Every frs in Bridge space. ✓	"	" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem	11.5-11 ✓	"
" " Third " " " "			" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem	Continuous ✓	"
Framing in Peaks, Angle [xxx]	9" 31" .475 ✓	"	Tank Side Brackets, height above base line at toe of Frame and thickness	1800 x 11.5 ✓	"
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	22 m/mx145m/m ✓	"	INNER BOTTOM PLATING.		
State if Frame Joggled	Joggled ✓	"	Breadth and thickness of Middle Line Strake	1370x13-11 ✓	"
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Deep frames system with intercostal stringers. ✓	"	Thickness of remainder in Holds	11.5-10 ✓	"
STRENGTHENING OF BOTTOM FORWARD. State Particulars	3 strakes plating fwd, increased. Solid floors, add: side girders. Bottom frs increased as required by Rules. ✓	"	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 Wells, Angle [xxx]	230x90x90x9/13.5 ✓	"
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [xxx]	230x80x80x9/12 ✓	"
Middle Line Keelson, on Floors, Angles, [or [Spacing	Every frs ✓	"
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle [xxx]	230x90x90x10/13.5 ✓	"
" " Foundation Plate on Floors			Spacing	Every frs ✓	"
" " 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 [xxx]	180x75x75x8/10.5 ✓	"
Solid Floors, thickness and spacing	11-10.5 ER 12 every 3rd, except forward under DT & BR. ✓	"	Spacing	Every frs ✓	"
" " Are Frame and Reversed Frame joggled?	Frs: only ✓	"	Bridge Deck, Angle, [xxx]	230x80x80x9/12 ✓	"
Bracket Floors, breadth and thickness at middle line	880 x 11 ✓	"	Spacing	Every frs ✓	"
" " breadth and thickness at margin plate	880 x 11 ✓	"	Forecastle Deck, Angle, [xxx]	180x75x75x8/10.5 ✓	"
			Spacing	Every frs ✓	"

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 Rows	✓	AS Approved	✓	Stringer Plate, breadth and thickness in way of Bridge	1270x9.5	AS Approved
„ in 'tween Decks, Size and Spacing.....	of Wide Spaced Pillars.		„		Thickness of Plating abreast Deck openings in way of Wells	10	„
„ „ „ „ „			„		Thickness of Plating abreast Deck openings in way of Bridge	8.5	„
„ in Holds „ „	„		„		Thickness of Plating within line of openings...	8.5	„
„ „ „ „ „			„		If Sheathed, material and thickness	Unsheathed	„
Centre Line Bulkhead.					Third Deck.		
Stiffeners and Spacing.....	None	✓	„		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	2000x27	✓	„		If Plated, state thickness		
Doubling Br:ends:-	18.5	✓	„				
„ „ „ „ in way of Bridge	2000x11	✓	„		Poop Deck.		
„ Angle in Wells	200x200x25		„		Stringer Plate, breadth and thickness	965x10	„
Thickness of Plating abreast Deck openings in way of Wells	18.5-15	✓	„		Plating, sheathing, material and thickness ..	10	„
Thickness of Plating abreast Deck openings in way of Bridge	10	✓	„		Bridge Deck.		
Thickness of Plating within line of openings...	11.5-9	✓	„		Stringer Plate, breadth and thickness.....	1800x14.5	„
If Sheathed, material and thickness	Not Sheathed	✓	„		Plating, sheathing, material and thickness ..	11.5	„
Second Deck.					Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	1270x11-9	✓	„		Stringer Plate, breadth and thickness.....	915x10.5	„
					Plating, sheathing, material and thickness ..	10	„

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.	
	1340	22.5	25-20.5	20.5		No						
FLAT PLATE KEEL	1340	22.5	25-20.5	20.5	✓ As Approved	Double	25	100	✓ 4	25	90	Lapped
„ DBLG. (if any)												
BOTTOM PLATING, No. of Strakes		18	16-25	15	✓ "	"	22-25	88-100	✓ 4	22	90	"
BILGE PLATING, No. of Strakes ..1.....		18	13	15	✓ "	"	22	88	✓ 4	22	90	"
SIDE PLATING, No. of Strakes3.....		17.5	12	13.5	✓ "	"	22	88	✓ 3	22	80	"
UPPER DECK, Sheer-strake in Wells.....	1960	28	12	12	✓ "	"	28	114	✓ 4	28	115	Lap. & D. butts
UPPER DECK, Sheer-strake in Bridge ...		17.5	17.5 Doubling at Br:ends		✓ "	"	22	88	✓ 3	22	80	Lapped
STRAKE BELOW Sheer-strake in Wells.....	2130	17.5	12	12	✓ "	"	22	88	✓ 3 & 4	22	80-90	"
STRAKE BELOW Sheer-strake in Bridge ...		17.5			✓ "	"	22	88	✓ 3	22	80	"
POOP SIDE PLATING				10	✓ "	Single	19	75	✓ 1	19	65	"
BRIDGE SIDE PLATING ...		16.5			✓ "	Double	22	88	✓ 4	22	80	"
FOREC'TLE SIDE PLATING			11		✓ "	Single	19	75	✓ 1	19	65	"

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c)	8	✓
„ Deck next below	8	✓
As per Rule	7	

STIFFENERS.

	Plating Thickness.	VERTICAL.				HORIZONTAL.			
		Scantlings.	Spacing.	Scantlings.	Spacing.	Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks	7-6.5	Inv. A.							
„ „ Second „		125x75x9	760	✓					
„ „ Third „									
„ „ Holds	10.5-7.5	250x11	670-770	✓					
COLLISION „ (in Hold)	8.5	150x90x9	600	✓					
AFTER PEAK „ „	7.5	Inv. Ang.							

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Flat plate	MBJK	AS Approved	
STEM	UP plate	FS. L-260x70	„	„
STERN FRAME { Propeller Post	CS. Stream lined	„	„	„
{ Rudder „	„ casting	„	„	„
Speed of Vessel	16 knots		✓	„
RUDDER—Type	Semi-balance.		✓	„
„ A x D	1445		✓	„
„ Diam. of head	F.S. 305m/m		„	„
„ Mainpiece at top pintle	CS. Box Section		✓	„
„ „ heel ...				
„ how constructed	Built up & W.T.		✓	„
„ double or single plate	Steel 12.5		✓	„
„ 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 Process.

Nippon Seitetsu K.K. (Yawata steel works); Nippon Kokan Co., Kawasaki; Asano Shipbuilding Co., Tsurumi; Mitsubishi J.K. Nagasaki Seiko-sho;

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

EQUIPMENT No 4385. ✓												LETTER d ⁺ ✓		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. ✓					
1301	1st Bower ...	81	3	22	Stockless			59	10	0	0	232	Hall's latest Imp. Pt. CS Head	Kobe Stl Works	Kobe 9-4-37 SS		
1302	2nd „ ...	81	3	4	“			59	10	0	0		“	“	“	“	“
1303	3rd „ ...	80	3	4	“			59	0	0	0		“	“	“	“	“
	Collective weight.	244	2	2	✓							232 ✓					
1335	Stream	23	2	11	5	3	24	23	11	3	14	✓	Ordinary type	“	“	8-5-37 SS	

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.	Statio- tory.	Break- ing.	Supplied.	Per Rule.		Length. Diam.					Length. Dia.	Tons.	Length. Cir.	
2379	303 64	161850	✓	28463	47760		550 63.5	SL	Nippon Mech. Chain Works.	Osaka 25-6-37 TM	6404 TOWLINE	240 44	90.75	240 140	
2399	251 54	"	"	24210				"	"	"	HAWSERS & WARPS	185 24	3 off	Stl W.	
												185 22	2 off	Stl W.	
6404	Dia								Toyo Seiko KK	Osaka 22-5-37 SS	"	185 65	4 off	Manila rope.	
Iron Stream Chain or Steel Wire	225 38	67.8					220	G.S.F.			"				

Steering Gear, Steam Electric, Leonard Type. Good. Steering Gear, Hand Worm gear. Good.

Boats 2- 9150x2750x115, and 1- Temma. Steering Chains, Size and Test None fitted, Windlass Electric. Good.

Ceiling in Holds, thickness and material Wood, 65 m/m on 50 m/m Batten. Cargo Battens, thickness, material and spacing Wood, 50 m/m spaced 180 m/m

Cargo Hatchways.-(Upper Deck) Steel 760 m/m x 12.5 thick sides and 11 m/m thick ends. Thickness of Hatches 75 m/m Oregon Pine.

Size of No. 1 Hatchway (Forward) 5.85x5.0M No. 2 11.2x6.1M No. 3 9.6x6.1 M No. 4 8.0x6.7 M No. 5 11.2x6.1M No. 6 7.2x5.5 M

Number of Shifting Beams under Fore and Afters 3 off No.1: 6 off No.2 & 5: 5 off No.3: 4 off No.4 & 6:

NAGASAKI WORKS, MITSUBISHI KOKYO KABUSHIKI KAISHA.
Builder's Signature
GENERAL MANAGER.

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 **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.

Oil fuel is carried in the double bottom tanks, Wing tanks at aft end of engine room & aft end of Tunnel. F.P. above 150° F.

Cargo oil is carried in the deep tanks at No.4 hatch, F.P. above 150° F. All the remaining requirement of Sections 20 & 34 of the Rules have been complied with. Oil fuel filling suction & heating pipes tested in place by hydraulic pressure & found good and sound.

This vessel has been constructed under Special survey in accordance with the Rules & Approved plans.

The materials have been tested found efficient and the workmanship throughout is good.

Double bottom tanks, deep tanks, fresh water tanks, fore & aft peak tanks tested by a head of water as required by Rules and found good.

Decks, tarpaulins, Hold & tween deck bulkheads, shaft tunnel, escape trunks, and side scuttles hose tested and found good.

Engine room water tight door hose tested, tried under working conditions and found good.

P.T.O.

The amount of Entry Fee £ 10-0-0 : Fees applied for, (Special notations, where part of class, to be stated.)
Special Survey Fee.... £ 481-4-0 : 6. 12₁₉ 37
Travelling Expenses, if any £ ¥ 20:00: (Late fee) 23.2 19 38 7/23 1/2
I am of opinion the Vessel should be Classed **+100A1**.

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

Certificate to be sent to **Nagasaki** Date of issue **9/3/38**

Committee's Minute

Character assigned

FEB 11 FEB 1938

+ 100 A1

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

Lloyds A+C + dmc 11.37 oil Eng. 0.100 lb.

Writ 4/5
Kit



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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.)

Deep tanks with heating coils and double bottom tank in way specially tested for the carriage of vegetable oil. Copy of certificate herewith.

A freeboard of 2166 m/m from top of deck, at side, to centre of disc, has been assigned by the Japanese Government.

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

Midship section: Construction Profile & Deck (Sheet 1 & 2): W.S.Pillar & Girder:

O.T & W.T. Bulkhead: Stem: Stern Frame: Rudder: Shell Expansion: Aux.Engine Seat:

Pumping Plan: and also Steel Invoices:—

Forging & casting certificates forwarded herewith:—

Stem bar (Cert No.1603). Stern frame (Cert No.1663). Rudder (Cert No.1733)

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book.

Recommended to have records of ~~100~~AI with date of built 11-37. Lloyd's A & CP. 2 Dks.CruiserStern.
D.F: E.S.D: Carrying cargo oil F.P.above 150° F in deep tanks: P. 23.9' B. 183'. F. 41.33'. FKK.
8 BH pt Cem. ✓

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

1st Bower	46 - 0 - 22	SS	1301	20-11-36
2nd "	46 - 0 - 0	SS	1302	"
3rd "	44 - 2 - 27	SS	1303	6-10-36

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 23.9 ft., R.Q.D. - ft., Bridge 183 ft., Forecastle 41.33 ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated Not joined.

Over-all Length 147.0 M. ✓

No. and Material of Decks 2 dks. steel, 2 Tier Beams:

Official No. 44012 : Signal Letters J.W.U.L. Is bottom of vessel coated with cement Yes- Water tks and wells 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,	107.62	367.94	Fore peak tank,	27.49	85.34
Double bottom, under Engines and Boilers,	73.49	603.87	After peak tank,	17.72	79.38
Double bottom, if under Engines only,			Deep tank, aft,	36.75	1303.78
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	172.49	565.98	Other tanks, if fitted, (Eng.rm F.O.tks)	7.87	142.92
Total capacity of double bottom	1539.79		(If necessary, furnish further information by sketch.) Wing F.O.Tr.	23.62	94.18

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. 125

Date 11-5-1936 (Mag)

Dates of Surveys held while building

1937:— Feb 18 Mar 4.19.25.31 April 1.6.7.8.9.10.12.15.17.19.21.26.28.
May 3.5.6.10.12.13.17.21.24.27.31 June 1.2.4.11.12.15.17.19.21.22.
24.26.29 July 2.3.5.7.12.22 Aug 9.10.26 Sep 4.30 Oct 11.12.13.19
23.27.30 Nov 4.6.12.15.17.18.19.24.26.27.29.30.

Total No. of Visits 73

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