

STEEL STEAMER or MOTORSHIP.

FEB 14 1938

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 January 1938.**Port of **NAGASAKI.**No. **2328**Survey held at **NAGASAKI.**Date First Survey **2nd March 1937.**Last Survey **23rd December 1937**On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) **Steel Single Screw Motor Vessel "AWATA MARU"**State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) **Full Scantling.**State Type of Erections **Forecastle, Poop, Bridge,**TONNAGE under Tonnage Deck... **6,550.60**CLASS **MIOOAI.**State if with freeboard as condition of Class **No**Built at **Nagasaki, Japan.**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) **140.0**Launched **5th August 1937** Yard No. **688**Total **6,550.60**Breadth (greatest moulded) **B 19.0**Builders **Mitsubishi Jukogyo K.K.**Gross Tonnage **7,397.63**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 **4,328.13**1st Longitudinal Number (L x D) **= 1470**Managers **/**
(Where necessary to be entered in Reg. Book.)2nd Numeral L x (B + D) **= 4130**Framing Depth "d," at middle of length. See Sec. 3 (1d) **5.77**Residence **Tokyo**

REGISTERED DIMENSIONS.

FEET.

Length **462.66**Proportions—Depth to Length—Uppermost continuous deck to top of keel **13.35**Port of Registry **Tokyo**Breadth **62.34**Do. Long Bridge to top of keel **10.81**

If surveyed while building, afloat, or in dry dock

Depth **34.45**Draught Moulded **8.34**

While 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	800	✓ As Approved	Bracket Floors, Frame	B.A. 8" 3 1/2" .45	As Approved
" " from 3/4 length to Collision bulkhead	650	✓ "	" " Reversed Frame	B.A. 180 75 9.5	✓ "
" " in peaks	600	✓ "	" " Vertical Struts	B.A. 180 75 9.5 & 250x90x90x9/13	✓ "
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1170x13.5-11.5	✓ "
Frame Amidships, Angle [2x3]	300x90x90x11.5	✓ "	" " top Angles	90 90 12	✓ "
" " Extends up to	Upper & 2nd Deck 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 1/4 len. from stem	130 130 12	✓ "
Frames in Uppermost Continuous 'tween Decks, Angle, [2x3]	200x90x11.5 & 200x90x11.5	✓ "	" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	250x250x13	Tee B. ✓ "
" " Second 'tween Decks, Angle, [2x3]	200x90x11.5 & 200x90x11.5	✓ "	" " Gussets, spacing and scantling abaft 1/4 len. from stem	11.5-11	✓ "
" " Third " " "	-	-	" " Gussets, spacing and scantling forward 1/4 len. from stem	Continuous	✓ "
Framing in Peaks, Angle [2x3]	9" 3 1/2" .475	✓ "	Tank Side Brackets, height above base line at toe of Frame and thickness	1800x11.5	✓ "
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	22m/mx145m/m	✓ "	INNER BOTTOM PLATING.		
State if Frame Joggled	Joggled	✓ "	Breadth and thickness of Middle Line Strake	1370x13x11	✓ "
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Deep frames system with intercostal stringers. 3 strakes plating fore, increased. Solid floors, add: side girders. Bottom frs increased as required by Rules.	✓	Thickness of remainder in Holds	11.5-10	✓ "
STRENGTHENING 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	✓ "
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	-	-	Uppermost Continuous Deck, amidships	230x90x90x9/13.5	✓ "
Height of Brackets at side above base line at toe of frame	-	-	" " in Wells, Angle, [2x3]	230x80x80x9/12	✓ "
Middle Line Keelson, on Floors, Angles, [or [-	-	" " in way of Bridge, Angle, [2x3]	230x80x80x9/12	✓ "
" " Through Plate or Intercostal Plate	-	-	Spacing	Every fr's.	✓ "
" " Foundation Plate on Floors	-	-	Second Deck, amidships, Angle, [or [230x90x90x10/13.5	✓ "
" " Flat Plate Keel Angles	-	-	Spacing	Every fr's	✓ "
Side Keelsons, No. each side	-	-	Third Deck, amidships, Angle, [or [-	-
" " thickness of Intercostal Plate	-	-	Spacing	-	-
" " Angles	-	-	Fourth Deck, amidships, Angle, [or [-	-
DOUBLE BOTTOM.			Spacing	-	-
Solid Floors, thickness and spacing	11-10.5 ER 12 every 3rd, except forward under DT, & ER.	✓	Poop Deck, Angle, [2x3]	180x75x75x8/10.5	✓ "
" " Are Frame and Reversed Frame joggled?	Frs: only	✓ "	Spacing	Every fr's	✓ "
Bracket Floors, breadth and thickness at middle line	880 x 11	✓ "	Bridge Deck, Angle, [2x3]	230x80x80x9/12	✓ "
" " breadth and thickness at margin plate	880 x 11	✓ "	Spacing	Every fr's	✓ "
			Forecastle Deck, Angle, [2x3]	180x75x75x8/10.5	✓ "
			Spacing	Every fr's	✓ "

PILLARS AND DECKS.

	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.
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.	None	„	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	2000x27	„	If Plated, state thickness	-	
Doubling Br:ends:-	18.5	„			
„ „ „ „ in way of Bridge	2000x11	„	Poop Deck.		
„ Angle in Wells	200 x200x25	„	Stringer Plate, breadth and thickness	965x10	„
Thickness of Plating abreast Deck openings in way of Wells	18.5-15	„	Plating, Stringer Plate 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, Stringer Plate thickness ..	11.5	„
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	1270x11-9	„	Stringer Plate, breadth and thickness.....	915x10.5	„
			Plating, Stringer Plate 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.		
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 of Strakes	18		16- 25	15	✓ "	Double	22- 25	88- 100	✓ 4	22	90	✓ "	
BILGE PLATING, No. of Strakes1.....	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	✓ "	"	22	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

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Flat plate	MJKK	As	Approved
STEM	FS: Up. Plate	250x70	✓ „	„
STERN { Propeller Post	CS. Stream	„	✓ „	„
FRAME { Rudder „	lined casting	„	✓ „	„
Speed of Vessel	16 knots	✓		
RUDDER—Type	Semi-Balance	✓		„
„ A x D	1445	✓		„
„ Diam. of head	FS. 305m/m	✓		„
„ Mainpiece at top pintle	CS. Box Section	✓		„
„ „ heel ...	Built up & W.T.	✓		„
„ how constructed	Steel 12.5	✓		„
„ double existing plate	Vertical	✓		„
„ coupling, vertical or				
„ horizontal				

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks	7-6.5	Inv. A. 125x75x9	760	✓	
„ „ Second „					
„ „ Third „					
„ „ Holds	10.5	250x11	670	✓	
„ „ „	7.5	FS 90x16	770	✓	
COLLISION „ (in Hold)	13- 8.5	Inv. A. 150x90x9	600	✓	
AFTER PEAK „ „	12.5 7.5	„ „	610	✓	

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 Seitetsu-sho: Tsurumi Steel & Shipbuilding Co:	
	Nippon Koken K.K.: Nagasaki Seiko-sho Mitsubishi Jukogyo K.K:	
	Has the Steel been tested as required by the Rules? Yes	

EQUIPMENT No 4385										LETTER at ✓	ANCHORS. 3B. 1S.
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.
1312	1st Bower ...	81	3	10	Stockless	59	10	0	0	232	Hall's Latest Imp. Pt. CS Head
1313	2nd „ ...	81	2	19	„	„	„	„	„	„	Kobe Stl Wks.
1314	3rd „ ...	81	1	1	„	„	„	„	„	„	„
	Collective weight.	244	2	20	„	„	„	„	„	232	„
1336	Stream	23	3	12	6	0	18	23	15	2	14

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- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Dia.		Tons.	Length.
	Faths.	m/m	Kgs.	Lbs.	Cwts.	Lbs.	Fathoms.	Ins.					Faths.	m/m		Fathoms.	m/m
2400	276	64	115650		26536		47760	550	63.5	S.L.	Nippon Mach.Chain Works.	Osaka 7-7-37 TM	6404B TOWLINE...	240	44	90.90	240 140
2408	276	64	"	"	27340					"	"	28-7-37 TM	HAWSERS & WARPS }	185	24	3 off	Stl W.
2459 (2 shackles)					2-1-26					"	"	30-10-37 TM		185	22	2 off	Stl W.
6404B.		Cir.						Cir.					"	185	65	4 off	Manila rope.
Iron Stream Chain or Steel Wire	225	38	66.4				220			GSF. Toyo Seiko K.K.	22-6-37 SS		"				

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 Battens. 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 3 off No.1: 6 off No.2 & 5: 5 off No.3: 4 off No.4 & 6:.

Builder's Signature *[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 and heating pipes tested in place by hydraulic pressure and found good & tight.

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, frsh water tanks, fore & aft peak tanks tested by a head of water as required by Rules and found good.

Decks, tarpaulins, holds & 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 condition and found good. P. T. O.

The amount of Entry Fee £ 10-0-0 : Fees applied for, 27. 12 19 37 (Special notations, where part of class, to be stated.)

Special Survey Fee.... 481-3-6 : Received by me, 23. 2 19 23/2 I am of opinion the Vessel should be Classed +100AI.

Travelling Expenses, if any £ : :

State whether the Vessel has been built under Special Survey Under Special Survey. Signature *[Signature]* Surveyor to Lloyd's Register of Shipping.

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

Committee's Minute

Character assigned + 100 A1 Carrying Cargo Oil F.P. above 150° F. in deep tanks

Lloyd's A & C.P. + Lunc 12.37 S.B. 100lb. Oil Eng A.H.

hence for.

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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.)

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.

Sister vessel, Nagasaki Report No.2324, "Asaka Maru".

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

Midship Section: Construction Profile & Deck (Sheet 1 & 2): W.S.Pillar and 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.1604): Stern Frame (Cert No.1703): Rudder (Cert No.1734):

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

Recommended to have record of #10041 with date of built, 12.-'37, Lloyd's A & CP: 2 Dks.

Cuniser Stern: D.F: E.S.D: Carrying cargo oil F.P.above 150° F in Deep tanks:

P. 23.9'. B. 183'. F. 41.33': F.K: 8 BH pt Cement.

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

1st Bower	46 - 1 - 1.	S.S.	1312	25-11-36
2nd "	46 - 1 - 12.	S.S.	1313	"
3rd "	45 - 1 - 20.	S.S.	1314	8-12-36

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 23.9 ft., R.Q.D. 183 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 jointed.

Over-all Length 147.0 Metres.

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

Official No. 44231 ; Signal Letters J. W. V. L. Is bottom of vessel coated with cement Yes- Water tanks & Wells only. if not give particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	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,	179.49	565.98	Other tanks, if fitted, (Eng.Rm F.P.Taks)	7.87	142.92
	Total capacity of double bottom	1537.79	(If necessary, furnish further information by sketch.) Wing.	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. 126

Date 11th May 1936
Nagasaki.

Dates of Surveys held while building

1937:— Mar 2.4.25.31 Apr 1.7.9.10.14.15.17.19.21.26.28 May 5.6.10.12.13
24.27.28 June 1.2.5.11.15.17.19.22.24.29 July 1.3.5.8.12.17.20.23.
24.28.29.31 Aug 2.3.5.9.20 Sep 6.18.30 Oct 16.21 Nov 11.19.24. Dec
1.7.9.10.12.13.14.17.18.21.22.23.

Lloyd's Register
Foundation
Total No. of Visits 71