

## STEEL STEAMER or MOTORSHIP.

AUG -2, 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 25th May 1938.

Port of SHIMONOSEKI

No. 2369

Survey held at NAGASAKI

Date First Survey 31st October 1938

Last Survey 10th May 1938. 19

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Single Screw Steamer "TENRYO MARU" ex "BOLSHEVIK"

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

State Type of Erections P.B.S.

TONNAGE under 1,768.78  
Tonnage Deck...

CLASS +100AI

State if with freeboard as condition of Class No  
Metres

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) L 77.53

Launched 10th Aug. 1937 Yard No. 106

Breadth (greatest moulded) B 12.80

Builders Koyagijima Zosen-sho. Kawaminami Kogyo K.K.

Total

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 7.00

Owner Kawaminami Kogyo K.K.

Gross Tonnage 2,192.50

Register Tonnage 1,158.41

1st Longitudinal Number (L x D) = 542.71

Managers /

2nd Numeral L x (B + D) = 1535

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

REGISTERED DIMENSIONS.  
Metres.

Length 257.1 78.38

Breadth 40.4 12.30

Depth 23.0 7.00

Framing Depth "d," at middle of length. See Sec. 3 (1d) 6.16

Residence Nagasaki.

Proportions—Depth to Length—Uppermost continuous deck to top of keel 11.08

Port of Registry Osaka.

Do. Long Bridge to top of keel 8.34

If surveyed while building, afloat, or in dry dock

Draught Moulded 6.17

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	620	As Approved	Bracket Floors, Frame	Ch. 180x75x10.5	As Approved
" " from $\frac{3}{8}$ length to Collision bulkhead	455	"	" " Reversed Frame	Ch. 180x75x10.5	"
" " in peaks	455	"	" " Vertical Struts	Ch. 180x75x10.5	"
SIDE FRAMING.			Centre Girder, depth and thickness amidships	890x10.5-9	"
Frame Amidships, Angle, [ or ]	230x90x13.3	"	" " top Angles	DA 75 75 10.5	"
" " Extends up to	Upp. Deck.	"	" " bottom Angles	DA 90 90 10.5	"
Reversed Frame Amidships, Angle		"	Side Girders, No. each side and thickness	One 8 BR 11	"
" " Extends up to		"	Margin Plate depth (excl. of flange) and thickness	735x10 BR 12.5	"
Depth of Framing Girder		"	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	90 90 10.5 BR 12.5	"
Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]	230x90x13.3	"	" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem	" " " "	"
" " Second 'tween Decks, Angle, [ or ]		"	" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem	650x8.5 BR 11	"
" " Third " " "		"	" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem	8.5 Continuous	"
Framing in Peaks, Angle, [ or ]	180 75 9.5	"	Tank Side Brackets, height above base line at toe of Frame and thickness	1395x9.5 BR 12	"
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	22 dia. x 140	"	INNER BOTTOM PLATING.		
State if Frame Joggled	Joggled	"	Breadth and thickness of Middle Line Strake	BR 12.5	"
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Solid floor at every 3rd ft. Add: side girder & panting strg. fitted.	"	Thickness of remainder in Holds	8.5	"
STRENGTHENING OF BOTTOM FOR WARD. State Particulars	Bottom plating increased thickness from $\frac{3}{8}$ L. Ford.	"	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, [ or ]	150 75 6.5	"
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [ or ]	150 75 6.5	"
Middle Line Keelson, on Floors, Angles, [ or ]			Spacing	Every Fr.	"
" " Through Plate or Intercoastal Plate			Second Deck, amidships, Angle, [ or ]	150 75 6.5	"
" " Foundation Plate on Floors			Spacing	Every fr.	"
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [ or ]		
Side Keelsons, No. each side			Spacing		
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, [ or ]		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, [ or ]	150 90 9	"
Solid Floors, thickness and spacing	8.5 & 11 in BR. At every 3rd ft. in ER. and Ford $\frac{3}{8}$ L. Amid. Others every 4th E.R.	"	Spacing	Every fr	"
" " Are Frame and Reversed Frame joggled?	Frame only	"	Bridge Deck, Angle, [ or ]	150 75 8	"
Bracket Floors, breadth and thickness at middle line	770x8.5-11 BR	"	Spacing	Every fr	"
" " breadth and thickness at margin plate	770x8.5-11 BR	"	Forecastle Deck, Angle, [ or ]	150 75 6.5	"
			Spacing	Every fr.	"



## 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.
<b>PILLARS, No. of Rows.....</b>			<b>2 Rows Widely Spaced.</b>	<b>As Approved</b>	<b>Stringer Plate, breadth and thickness in way of Bridge</b>			<b>1090x8,5</b>	<b>As Approved</b>
,, in 'tween Decks, Size and Spacing			<b>P.Ch. 200x80x7.5</b>	✓ "	Thickness of Plating abreast Deck openings in way of Wells			<b>7.5</b>	✓ "
,, " " " "					Thickness of Plating abreast Deck openings in way of Bridge			<b>7.5</b>	✓ "
,, in Holds			<b>P.Ch. 300x90x9/13</b>	✓ "	Thickness of Plating within line of openings...			<b>7.5</b>	✓ "
,, " " " "					If Sheathed, material and thickness			<b>Not Sheathed</b>	✓ "
<b>Centre Line Bulkhead.</b>					<b>Third Deck.</b>				
Stiffeners and Spacing					Stringer Plate, breadth and thickness				
Plating, thickness of					If Plated, state thickness				
<b>STRINGERS AND DECKS.</b>					<b>Fourth Deck.</b>				
<b>Uppermost Continuous Deck.</b>					Stringer Plate, breadth and thickness				
Stringer Plate, breadth and thickness in Wells			<b>1145x12-11</b>	✓ "	If Plated, state thickness				
,, " " " " in way of Bridge			<b>1090x8.5</b>	✓ "	<b>Poop Deck.</b>				
,, Angle in Wells			<b>130 130 12</b>	✓ "	Stringer Plate, breadth and thickness			<b>660x7.5</b>	✓ "
Thickness of Plating abreast Deck openings in way of Wells			<b>7.5</b>	✓ "	Plating, Sheathing, material and thickness			<b>O.P. Wood 65 on Stl Dk 7</b>	✓ "
Thickness of Plating abreast Deck openings in way of Bridge			<b>7.5</b>	✓ "	<b>Bridge Deck.</b>				
Thickness of Plating within line of openings...			<b>7.5</b>	✓ "	Stringer Plate, breadth and thickness			<b>1120x8.5</b>	✓ "
If Sheathed, material and thickness			<b>Wood 65 O.P.</b>	✓ "	Plating, Sheathing, material and thickness			<b>O.P. Wood 65 Stl Dk 7.5</b>	✓ "
<b>Second Deck.</b>					<b>Forecastle Deck.</b>				
Stringer Plate, breadth and thickness in Wells			<b>1090x8.5</b>	✓ "	Stringer Plate, breadth and thickness			<b>660x8</b>	✓ "
					Plating, Sheathing, material and thickness			<b>O.P. Wood 65 Stl Dk 7.5</b>	✓ "

## SHELL PLATING.

SCANTLINGS.						RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	No	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.		RIVETS.	Diam.		Spacing or. to cr.
	m/m	m/m	m/m	m/m			m/m	m/m		m/m	m/m	B
FLAT PLATE KEEL .....	1120	16 ✓	14 ✓	14 ✓	As Approved	Double	22	78	3	22	78	Strapped
„ DBLG. (if any)												
BOTTOM PLATING, No. of Strakes .....4.....		12 ✓	18 ✓	14 ✓	"	"	19	78	3	19	67	Lapped
BILGE PLATING, No. of Strakes .....2.....		12 ✓	18 ✓	14 ✓	"	"	19	78-89	3	19	67	"
SIDE PLATING, No. of Strakes .....3.....		15 ✓	18 ✓	14 ✓	"	"	22	89	3	22	78	2 strakes BS
UPPER DECK, Sheer-strake in Wells.....	1195	14 ✓	10 ✓	10 ✓	"	"	22	89	3	22	78	Lapped
UPPER DECK, Sheer-strake in Bridge ...		12 (21 at Br. Ends)			"	"	19	89-103	3-4	19	67	"
STRAKE BELOW Sheer-strake in Wells.....		14 to 19 ✓	10 ✓	10 ✓	"	"	22	19	3	22	78	"
STRAKE BELOW Sheer-strake in Bridge ...		16 ✓			"	"	22	89	3	22	78	"
POOP SIDE PLATING .....				8 ✓	"	Single	16	64	1	16	56	"
BRIDGE SIDE PLATING ...		11 ✓			"	"	19	78	3	19	67	"
FORECASTLE SIDE PLATING			8.5 ✓		"	"	16	64	1	16	56	"

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c)

7

,, Deck next below

7

As per Rule

5

## STIFFENERS.

	Plating Thickness.				
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks	7.6.5	125x75x7A	750		
,, Second					
,, Third					
,, Holds	Fr. 63	10.5-180x75x	750		
		7-10.5 Ch			
COLLISION (in Hold)	7.5	180x75x7A	610		
		65x65x6A			
AFTER PEAK	7.5	150x75x8BA	610		

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar</b>	Flat plate			As Approved
<b>STEM</b>	CS Var: Sect.			"
<b>STERN FRAME</b>	Propeller Post	CS 230x145		"
	Rudder	CS 205x145		"
<b>Speed of Vessel</b>	12.5 knots			"
<b>RUDDER—Type</b>	Ordinary			"
,, A x D	606			"
,, Diam. of head	CS 215			"
,, Mainpiece at top pintle	CS 215			"
,, heel	CS 165			"
,, how constructed	CS Frames & Stl plate			"
,, double or single plate	Sing. 22 m/m			"
,, 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.**

**Nakayama Steel Works, Ltd., Osaka. Amagasaki Steel Works, Ltd., Osaka.**

**Carnegi-Illinois Steel Corporation. U.S.A.**

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

Lloyd's Register Foundation



EQUIPMENT No 1629 ✓												LETTER <b>r</b> ✓	ANCHORS. <b>3B 1S</b> ✓			
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.				
1261	1st Bower ...	35	3	16	Stockless	33	0	2	14	✓		Osahima C.S. Head.	Ando Iron Works	Osaka 22-3-37 TM		
1264	2nd „ ...	35	3	5	"	32	18	3	0	✓		"	"	"		
1262	3rd „ ...	35	2	12	"	32	15	0	0	✓		"	Ando Iron Works	Osaka 22-3-37 TM		
	Collective weight.	107	0	23	-					✓	101-					
1311	Stream .....	10	0	26	2	0	7	12	4	1	14	✓	Ordinary type	Ando Iron Works	Osaka 2-4-37 TM	
															HAWSEYS AND WARPS.	

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.	Statury.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Tons.	Length.
	Faths.	m/m	Kgs.	Kgs.	Owts.	Kgs lbs.	Owts.	Fathoms.	Ins.				Faths.	Ins.		Fathoms.	Ins.
139	450	44	54	880	19,691					S.L. Tokyo Seisa Tekkosho	Tokyo 28-6-37 SS	TOWLINE...	165	31	27		
				76,800									2-165	22			
												HAWSERS & WARPS }		Dia.			
													2-165	40		Manila rope	
6512	135	4"		35.5					4"	Kwansai Seiko K.	Kishiwada. 1-7-37 TM	"					
Iron (Stream) Steel Wire																	

Steering Gear, Steam **Twin Cyl. Hor. Type with Chains & Rods.** Steering Gear, Hand **Sergw Gear Type. Efficient.**

Boats **7 including Cutter Ice boat & Motorboat.** Steering Chains, Size and Test **32 m/m Dia: 37.5 Tons. Windlass Steam, Good & Efficient**

Ceiling in Holds, thickness and material **65 m/m Wood** Cargo Battens, thickness, material and spacing **50m/m Wood, 230m/m Apart ✓**

Cargo Hatchways. (Upper Deck) **760 x 11 m/m.** Thickness of Hatches **65 m/m O.P. ✓**

Size of No. 1 Hatchway (Forward) **4095x2100 No. 2 4960x2100 No. 3 4340x2100 No. 4 3720x2100 No. 5 - No. 6 -**

Number of Shifting Beams **No. 1- 2. No. 2- 3. No. 3- 2. No. 4- 2. ✓**

Builder's Signature

*T. Shintara*  
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 **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 constructed under Special survey in accordance with the Rules and Approved plans. ✓ The materials have been tested found efficient and the workmanship throughout is good. ✓

All double bottom tanks & wells, fore & aft peak tanks, tested with a head of water as required by Rules and found good. ✓ The centre girder of all tanks was also tested as required by Owners specification and found good. ✓

Decks, hold & tween deck bulkhead; chain locker, bulkhead, tunnel, escape trunk, poop bridge and fore-castle bulkheads, side scuttles and water tight doors hose tested and found satisfactory. ✓

Engine room and Boiler room water tight doors tried under working condition and found satisfactory. ✓

Steam & hand steering gears & windlass tried under working conditions and found satisfactory. ✓

~~The freeboard has been assigned and marked on the vessels sides in accordance with verification form which is forwarded herewith.~~

On trials vessel attained a mean speed of 12.5 knots. ✓

The amount of Entry Fee ..... £ **6 - -** Fees applied for, **7. 7. 1938**

Freeboard

Special Survey Fee.... £ **232: 7: 0** Received by me, **9. 12. 1938**

Travelling Expenses, if any £ **106:44 (Nag)**  
**163:82 (Kob)**  
**24:30 (Lon)**

(Special notations, where part of class, to be stated.)

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

State whether the Vessel has been built under Special Survey **Under Special survey.**

Signature *T. Takahara, S. Arima & c/o K. Huchanaw*  
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to **Shimonoseki**

Date of issue **1/9/38**

Committee's Minute

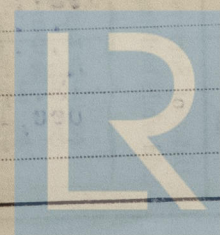
Character assigned

**TUE. 9 AUG 1938**

**+ 100 AI**  
**Strengthened for Navigation in Ice**  
**Lloyd's Assoc**  
**+ LMC 5.38**  
**outlet**

**L.H. 1**

**FD CL**



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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.)

Butts of ~~strakes~~ shell plating fitted with inside butt straps, all fore & aft, in way of load water line. ✓

Seams & butts of shell plating forward of 3/5 length fitted with inside butt straps from second strake below sheerstrake down to below light load draft. shell plating also rabbit jointed at stem. ✓

Vessel specially constructed and strengthened for the navigation in Ice. ✓

Note:- Provisional freeboards were assigned by this Society but as the vessel has now been taken over by Japanese Owners and registered under the Japanese Flag, now freeboards have been assigned by the Japanese Government, and the Provisional Certificate issued by us returned for cancellation.

Note:- This vessel together with No.107-8 built to the order of the U.S.S.R. were taken over by the present Owner, just after this vessel had completed her sea trials. ✓

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. **\*100AI, Strengthened for Navigation in Ice. ✓ 2 Dks. ✓ Cruiser stern. ✓ Lloyd's A & C.P. ✓ D.F. ✓ E.S.D. ✓ Wireless. ✓ Cement. ✓**

Particulars of <b>Drop Test</b> of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	23- 0- 19 ✓	S.H.	1261	6-3-37
	2nd "	22- 2- 18 ✓	S.H.	1264	6-3-37
	3rd "	22- 2- 0 ✓	S.H.	1262	6-3-37

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop <sup>23'</sup> **6.97 M** ✓ R.Q.D. - ft., Bridge <sup>77'</sup> **23.56M** ✓, Forecastle <sup>31'</sup> **9.42** ✓  
(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 **82.17** ✓ = 266

No. and Material of Decks **2 Dks. steel, 2 tier beams.**

Official No. **44566** ; Signal Letters **J. I. J.L.** Is bottom of vessel coated with cement **Yes** ✓ if not g  
particulars of composition /

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Metres	Water Capacity. Tons.	Where Fitted.	*Length. Metres	Water Ca Ton
Double bottom, aft,	19.22	111.50 ✓	Fore peak tank,	6.82	150.
Double bottom, under Engines and Boilers,	12.40	118.22 ✓	After peak tank,	3.66	13.
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,	32.545	194.13 ✓	Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
	Total capacity of double bottom	423.85 ✓	(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).  
64' 65" = 211' in R.B.

Order for Special Survey No. **130**

Date **12-10-36 (Nag)**

Dates of Surveys held while building

1936: Oct 31. Nov- Dec 7.9.  
1937: Jan 6.21.25.29 Feb 4.13.15 Mar 1.2.3.5.8.12.15.16.17.22.23.29.30  
5.8.12.13.16.20.23.24.30 May 3.4.7.11.14.17.18.22.26.28.31 Junw 2.3.4  
8.9.10.14.16.18.21.23.30 Jul 2.5.7.8.9.10.12.13.19.20.21.22.24.26.27.2  
Aug 2.3.5.6.7.9.10.12.13.16.17.18.19.20.21.23.25.27.30.31 Sep 1.2.6.7.  
13.16.18.21 Oct 1.2.4.5.9.12.20.23.25.26.27.29 Nov 2.9.11.15.18.19.22.  
Dec 13.14.17.20.23.24.28. 1937: Jan 7.10.11.29 Feb 5.10.12.16.24 Mar  
25 Apr 9.11.18.22.27.28 May 3.9.10.

Total No. of Visits **152**