

STEEL STEAMER or MOTORSHIP.

Received at London Office 29 SEP 1928

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 **27th August 1928.**Port of **NAGASAKI.**No. **1656**Survey held at **NAGASAKI.**Date First Survey **18th January 1928.** Last Survey **4th August, 1928.** 19On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) **Steel Single Screw Motor Vessel "SHUNTEN MARU".**State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) **Full Scantling Vessel.**State Type of Erections **Poop, Bridge, & Forecastle.**TONNAGE under Tonnage Deck... **5209.7**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.

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

L **405-0**Launched **20th June 1928** Yard No. **448.**

Breadth (greatest moulded)

B **55-0**Builders **Nagasaki Works, Mitsubishi Zosen Kaisha, Ltd.,**Total **5209.7**

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

D **32-0**Owners **Yamamoto Shoji Kaisha, Ltd.,**Gross Tonnage **5623.35**1st Longitudinal Number (L x D) = **12,960**Managers **/**

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

Register Tonnage **3508.**2nd Numeral L x (B + D) = **35,235**Residence **Osaka.**

REGISTERED DIMENSIONS.

FEET.

Length **405'-0"**

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

18.63Port of Registry **Fuchu.**Breadth **55'-0"**

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

12.66

If surveyed while building, afloat, or in dry dock

Depth **32'-0"**

Do. Long Bridge to top of keel

10.25Draught Moulded **25'-5.9"****While Building.**

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
Spacing amidships	33		Bracket Floors, Frame B.A.	7 3 1/2 .34	
from 1/2 length to Collision bulkhead	27		" " Reversed Frame B.A.	6 3 .36	
" in peaks	24		" " Vertical Struts Ch.	10 3 1/2 x 3 1/2 .42	
ING.	11 1/2 3 1/2 .64	In way of Deep Tank.	Centre Girder, depth and thickness amidships	44 - .54	
Midships, Angle	11 1/2 3 1/2 .46		" " top Angles	3 1/2 3 1/2 .52	
" Extends up to	12 3 1/2 .46	In way of Side Tank.	" " bottom Angles	4 4 .58	
Frame Amidships, Angle	/		Side Girders, No. each side and thickness	One .40 44 where flgd.	
" Extends up to	/		Margin Plate depth (excl. of flange) and thickness	36 .54-.52 at ford end.	
Framing Girder	12" in Eng. Rm.		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 1/2 3 1/2 .42	
Uppermost Continuous 'tween Decks, Angle	8 3 1/2 .40		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	5 5 .42	
Second 'tween Decks, Angle, [or [	/		" " Gussets, spacing and scantling abaft 1/2 len. from stem	Continuous gusset plate .46	
Third " " " "	/		" " Gussets, spacing and scantling forward 1/2 len. from stem	" " "	
Peaks, Angle	8 3 .40		Tank Side Brackets, height above base line at toe of Frame and thickness	77 .48-.46	
and Spacing of Rivets through Frame and Shell Plating amidships	7/8 5 1/2 In holds.		INNER BOTTOM PLATING.		
Frame Joggled	Yes		Breadth and thickness of Middle Line Strake	51 .50-.42	
ARRANGEMENTS (Sec. 7), state system and particulars	Deep Frame Arrangement.		Thickness of remainder in Holds	.44-.40 at 33 F.spacing.	
ING OF BOTTOM FOR	11 1/2 x 3 1/2 x .46 BA with 5x4 x .46 Rev. Angle to 2nd deck.		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space	.42-.38 at 27 " "	
State Particulars	Tw. Dk. Frs. 7 1/2 x 3 1/2 x .40 BA ext. to U.D. & Fore dk alt.		Yes		
OTTOM.	Add. side girder, spaced			8 3 .36 No. 1 H.	
th and thickness at mid-line in Holds	8'-0" & 1/2 Height.			8 3 .46 No. 6 H.	
Height of Brackets at side above base line at toe of frame				8 1/2 3 .36 Amidships.	
Keelson, on Floors, Angles, [or [				33	
" Through Plate or Intercostal Plate				8 1/2 3 .36	
" Foundation Plate on Floors				33	
" Flat Plate Keel Angles				Third Deck, amidships, Angle, [or [/
ns, No. each side				Spacing	
thickness of Intercostal Plate				Fourth Deck, amidships, Angle, [or [/
Angles				Spacing	
OTTOM.	.42 at 33 Spacing.			Poop Deck, Angle, [or [	8 3 .36
s, thickness and spacing	.40 at 27 "			Spacing	23 & 24
Are Frame and Reversed Frame joggled?	No			Bridge Deck, Angle, [or [	8 3 .42
ors, breadth and thickness at middle line	33 .42			Spacing	8 3 .36 E.R.
breadth and thickness at margin plate	33 .42			Forecastle Deck, Angle, [or [	8 1/2 3 .42
				Spacing	24 & 27

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 Spaced				Stringer Plate, breadth and thickness in way of Bridge	47	.42-	.40-	.34
" in 'tween Decks, Size and Spacing.....	Pillars.				Thickness of Plating abreast Deck openings in way of Wells .....		.36-	.32	
" " " " "					Thickness of Plating abreast Deck openings in way of Bridge		³⁶ .42-	.30	
" in Holds " "					Thickness of Plating within line of openings...	.34	-	.30	
" " " " "					If Sheathed, material and thickness .....	.42	in way of Deep T.		
Centre Line Bulkhead. in way of Deep Tank.					Third Deck.				
Stiffeners and Spacing..... B.A.	9	3½	.46	33" apart.	Stringer Plate, breadth and thickness.....				
Plating, thickness of .....	.42-	.32			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	.86-	.62		If Plated, state thickness				
" " " " in way of Bridge	58	⁴⁰ 1.29			Poop Deck.				
" Angle in Wells	6	6	.86		Stringer Plate, breadth and thickness	36		.36	
Thickness of Plating abreast Deck openings in way of Wells .....	.60	-	⁴⁰ .40		Plating, Sheathing material thickness ...			.30	
Thickness of Plating abreast Deck openings in way of Bridge	⁶⁰ .60	-	.36		Bridge Deck.				
Thickness of Plating within line of openings...	.40-	.41-	.34		Stringer Plate, breadth and thickness.....	58		.48	
If Sheathed, material and thickness 2½ O.P. in Crews Quarters.					Plating, Sheathing, material and thickness ...		.44	.36	
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...	47	.40-	.36		Stringer Plate, breadth and thickness. 2½ O.P. in Accomodation.	35		.36	
					Plating, Sheathing material thickness ...			.34	

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	50	.80	.70	.70	/	Double	1	3 3/4	4 - 3	1	4	Lapped	
„ DBLG. (if any)		/					/			/			
BOTTOM PLATING, No. of of Strakes ... 3	96	.66	.48	.57	/	Double	7/8	3 1/3	4 - 3	7/8	3 1/4	Lapped.	
BILGE PLATING, No. of Strakes 1	75	.66	.46	.50	/	"	"	"	"	"	"	"	
SIDE PLATING, No. of Strakes 6 3	87	.66	.46	.50	/	"	"	"	3	"	1 16	"	
UPPER DECK, Sheer- strake in Wells.....	50	.87	.62	.66	1.30 at Bridge Ends.	"	1	3 3/4	5-4-3	1 1/8	4 1/2	"	
UPPER DECK, Sheer- strake in Bridge ...	50	.66			/	"	7/8	3 1/3	3	7/8	3 1/16	"	
STRAKE BELOW Sheer- strake in Wells.....	50	.75	.60	.62	/	"	1	3 3/4	4-3	7/8	3 1/16	"	
STRAKE BELOW Sheer- strake in Bridge ...	50	.66			/	"	7/8	3 1/3	3	7/8	3 1/16	"	
POOP SIDE PLATING .....		.38				Single	3/4	3	1	3/4	2 5/8	"
BRIDGE SIDE PLATING ...		.60				Double	7/8	3 1/3	3	7/8	3 1/16	"
FOREC'TLE SIDE PLATING		.42				Single	3/4	3	1	3/4	2 5/8	"	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—					
Extending to Upper Deck (Sec. 3 c)	4				
" Deck next below	2				
As per Rule 6	Note: One bulkhead in aft hold dispensed with.				
	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper 'tween decks	8 61-77	30	7x3x34BA	24	
" " " " " "	117	28-26	5 1/2 x 3x34BA	30	
" " " " " "	146	28-26	5x3x30BA	24	
" " " " " "	51	46-30	15/4x4x48C	25 1/2	
" " " " " "	56-61	48-30	13x4x4x48C	24	
" " " " " "	77	48-30	10x3 1/2 x 54BA	30	
" " " " " "	117	50-30	12x3 1/2 x 54SC	31	
COLLISION " (in Hold)	146	52-30	10x3 1/2 x 54BA	24	SEMI-BOX BEAM 48-34
AFTER PEAK " " " " " "	8	50-30	7x3x30BA	24	SEMI-BOX BEAM 24-34

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM	Forged Steel.	10x2 1/2		
STERN FRAME { Propeller Post	C.S.	10 1/2 x 8	Kobe Steel Works	
{ Rudder "	C.S.	9x8		
RUDDER—A x D.....		473		
Speed of Vessel.....		11 knots		
RUDDER mainpiece at head ...	F.S.	10	Mitsubishi Z.K.	
" " heel ...	"	7 1/2	Nagasaki.	
" how constructed		Built		
" double or single plate	Single	1.08		
" coupling, vertical or horizontal	Vertical	27 1/2 x 22 1/2		

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)		Open Hearth Process.
	Pease & Partners Ltd., Lanarkshire Steel Co., Consett Iron Co., David Celville & Sons, Ltd., Steel Co of Scotland., Dillinger Huttenwerke.,		
	Has the Steel been tested as required by the Rules?		Yes.

EQUIPMENT No. 36582.										LETTER S.			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.
60639	1st Bower ...	61	0	7	Stockless			48	17	2	0		Hall's	Joseph W.	Tipton 16-11-27WAD.
60638	2nd „ ...	60	3	0	"			48	15	0	0		Pattern.	& Co.Ltd.	" " "
60637	3rd „ ...	60	1	14	"			48	10	0	0		"	Tipton.	" 15-11-27 "
	Collective weight.	182	0	21								182			
60631	Stream	18	0	0	4	1	21	19	0	0	0	17½	Ordinary	"	" 10-11-27 WAD.

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.	Cir.		Length.	Cir.
1548	270 1/2	2 1/2	91 1/2	127 1/2	732-0-1			682 1/2	270 2 1/2	S.L.	Osaka Chain Works.	Osaka 23-4-28 Y.J.	TOWLINE... HAWSERS & WARPS	120	4 1/2	66.9	120	5
													"					
Iron Stream Chain or Steel Wire	90	4 1/2			60.42				90 4 1/2	Spec. Flex.			"	180	8		180	8
													"	180	7		180	7

Steering Gear, Steam **Brown Bros. Electric Hydraulic.** Steering Gear, Hand **Brown Bros Worm Gear.**

Boats **1 in No.18.15x4.85x1.75** Steering Chains, Size and Test **2 in No.28.5x9.00x3.55.** Windlass **Clarke Chapman & Co. Electrical Winch.**

Ceiling in Holds, thickness and material **2 1/2" Soft wood laid on 2" Battens.** Cargo Battens, thickness, material and spacing **6"x2"Soft wood 9"apart.**

Cargo Hatchways.—(Upper Deck) **Plates and Angles & Wood Covers** Thickness of Hatches **3" except No.7 2 1/2"**

Size of No. 1 Hatchway (Forward) **33'-9"x20'-0"** No. 2 **38'-6"x20'-0"** No. 3 **22'-0"x20'-0"** No. 4 **8'-3"x20'-0"** No. 5 **33'-0"x20'-0"** No. 6 **33'-0"x20'-0"** No. 7 **8'-3"x12'-0"**

Number of Shifting Beams and/or Fore and Afters **No.1-5., No.2-6., No.3-3., No.4-1., No.5-5., No.6-5., No.7-1.,**

NAGASAKI WORKS, MITSUBISHI ZOSEN KAISHA, LTD.
 Builder's Signature *S. Kawai.*
 GENERAL MANAGER.

GENERAL DECLARATION **This vessel has been built in accordance with the Rules and approved plans.**

The materials and workmanship are good.

The Fore and Aft Peak Tanks, Deep Tanks, 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 of:- Midship Section. Construction Profile and Deck Plan.

W.T.Bulkhead. Rudder. Stern Frame. Pumping. also Certificates of Castings and Forgings.

Sister vessel (with slight modification) to "Columbia Maru & Olympia Maru", Nagasaki Report Nos.1600 & 1603.

The amount of Entry Fee £ **90:00 :** Fees applied for, **14. 8. 1928**

Special Survey Fee.... £ **5108:75 :** Received by me, **30.10.28**

Freeboard. " **165:00**

Travelling Expenses, if any £ : :

State whether the Vessel has been built under Special Survey **Yes.** I am of opinion the Vessel should be Classed **+100A1.**

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

Certificate to be sent to **Nagasaki.** Date of issue **4/10/28.**

Committee's Minute **TUE. 2 OCT 1928**

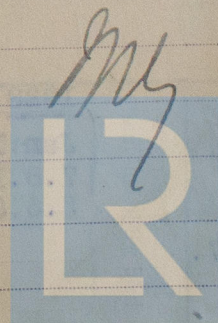
Character assigned **+ 100 A1.**

The Surveyor is requested not to write on or below the Committee's Minute.

Wise
do 2/10/28

Lloyd's A&CP

+ RMB 8.28 Oil Engines
CP
SP 100A1.



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 copy 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	36-3-21	W.A.D.	4261	16-11-27.
	2nd "	36-1-22	"	3669	"
	3rd "	36-1-16	"	4263	15-11-27.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 38.75 ft., R.Q.D. -- ft., Bridge 110.0 ft., Forecastle 40 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 decks. steel. 2 tiers of beam

Official No. 33588. ; Signal Letters T.N.Q.P. Is bottom of Vessel coated with cement
particulars of composition Fore & Aft Peaks, F.W.Tanks, Cofferdams and Wells cement washed.
Fuel oil tanks not coated.

PARTICULARS OF WATER BALLAST.— (Salt Water)

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	126.5	377.82	Fore peak tank,	22.0	31.1
Double bottom, under Engines and Boilers,	/	/	After peak tank,	16.0	22.0
Double bottom, if under Engines only,	44.0	231.96	Deep tank, aft, Aft tank (ford of aft peak)	13.75	19.1
Double bottom, if under Boilers only,	/	/	Deep tank, forward, sides in E.Rm.	27.50	38.5
Double bottom, forward,	176.25	605.51	Other tanks, if fitted,	33.0	46.2
Total capacity of double bottom		1215.29	(If necessary, furnish further information by sketch.)	38.5	53.1

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 83.

Date 13th Sept. 1927.
LONDON.

Dates of Surveys held while building

1928.
Jan. 18. 21. 25. Feb. 8. 10. 16. 17. 22. 24. Mar. 1. 5. 6. 13. 16. 20. 21. 26. 28. 29. 30. Apr. 7. 8. 12. 13. 18. 20. 24. 25. 27. 30. May 4. 5. 8. 10. 15. 17. 18. 19. 23. 25. 28. 30. 31. Jun. 5. 6. 8. 11. 14. 15. 19. 20. 27. 30. July 2. 4. 11. 12. 18. 20. 23. 24. 27. 30. Aug. 2. 4.

Total No. of Visits