

STEEL STEAMER OR MOTORSHIP.

Received at London Office.

State if Report has been sent on the Freeboard of the Vessel Yes

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

Date of completion of report 21st January, 1953 Port of KOBE No. 1232
Survey held at Aioi Date First Survey 28th February, 1952 Last Survey 27th October, 1952

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

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling State Type of Erections Poop Bridge & Fcile.

TONNAGE under } 10,887.91
Tonnage Deck ... }
Do. of space or spaces }
between Tonnage Dk. }
and Upper Dk. }
Total 10,887.91
Gross Tonnage 11,979.61
Register Tonnage 8,726.64

CLASS +100A1 Carrying petroleum in bulk. State if with freeboard as condition of Class } No
Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) } L 534.77
Breadth (greatest moulded) } B 70.21
Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) } D 38.71
1st Longitudinal Number (L x D) = 20.701
2nd Numeral L x (B + D) = 58.247
Framing Depth "d," at middle of length. See Sec. 3 (1d) }
Proportions—Depth to Length—Uppermost continuous deck to top of keel } 13.81
Do. Long Bridge to top of keel } 30.31
Draught Moulded IG FREEBOARD 2.584 } 9.247

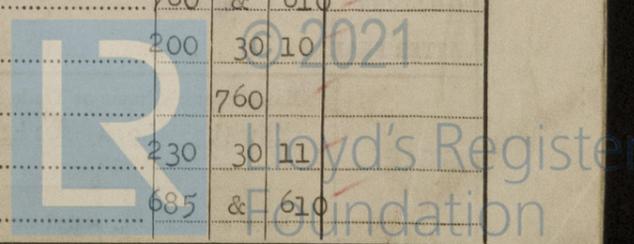
Built at Aioi, Japan.
Launched 22.8.52 Yard No. 476
Builders Harima S.B. & Eng.Co., Ltd. Japan.
Owners Terukuni Kaiun K.K.
Managers ---
Residence ---
Port of Registry Tokyo
If surveyed while building, afloat, or in dry dock Whilst building

REGISTERED DIMENSIONS.

FEET
Length 548.92
Breadth 70.51
Depth 38.42

FRAMES, DOUBLE BOTTOM AND BEAMS.

	mm X INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	mm X INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships.....	760	✓		
" " from 1/3 length amidships to Collision bulkhead.....	685	✓		
" " in peaks.....	610	✓		
SIDE FRAMING.				
Frame Amidships, Angle <u>or T</u>	250 12	✓		
" " Extends up to.....	Upper Deck	✓		
Reversed Frame Amidships, Angle.....	---			
" " Extends up to.....	---			
Depth of Framing Girder.....	250	✓		
Frames in Uppermost Continuous 'tween Decks, Angle, [or].....	---			
" " Second 'tween Decks, Angle, [or].....	---			
" " Third " " " ".....	---			
" " from 1/2 len. for'd. to 15% len. from Stem.....	250 x 12 B.P.	✓		
" " in Peaks, Angle <u>or T</u>	250 90 12 Aft. Peak	✓		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships.....	Welded	✓		
State if Frame Joggled.....	Yes (Sheerstrake only)	✓		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?.....	Yes	✓		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....	Yes	✓		
SINGLE BOTTOM.				
Floors, Depth and thickness at mid-line in Holds.....				
Height of Brackets at side above base line at toe of frame.....				
Middle Line Keelson, on Floors, Angles, [or].....				
" " Through Plate or Inter-costal Plate.....				
" " Foundation Plate on Floors.....				
" " Flat Plate Keel Angles.....				
Side Keelsons, No. each side.....				
" " thickness of Inter-costal Plate.....				
" " Angles.....				
DOUBLE BOTTOM. Engine Room Only				
Solid Floors, thickness and spacing.....	12 @ 760	✓		
" " Are Frame and Reversed Frame joggled?.....	Floors welded	✓		
Bracket Floors, breadth and thickness at middle line.....	---			
" " breadth and thickness at margin plate.....	---			
Bracket Floors, Frame.....				
" " Reversed Frame.....				
" " Vertical Struts.....				
Centre Girder, depth and thickness amidships.....	1500 x 15	✓		
" " top Angles.....	Welded	✓		
" " bottom Angles.....	Welded	✓		
Side Girders, No. each side and thickness.....	2 @ 12	✓		
Margin Plate depth (excl. of flange) and thickness.....	720 x 15	✓		
" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem.....	---			
" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area.....	---			
" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	---			
" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area.....	---			
Tank Side Brackets, height above base line at toe of Frame and thickness.....	1930 x 12	✓		
INNER BOTTOM PLATING.				
Breadth and thickness of Middle Line Strake.....	15	✓		
Thickness of remainder in Holds.....	15	✓		
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	✓		
BEAMS.				
Uppermost Continuous Deck, amidships in Wells, Angle <u>or T</u>	250 x 12	✓		
" " in way of Bridge, Angle <u>or T</u>	250 x 12	✓		
Spacing.....	760	✓		
Second Deck, amidships, Angle, [or].....	---			
Spacing.....	---			
Third Deck, amidships, Angle, [or].....	---			
Spacing.....	---			
Fourth Deck, amidships, Angle, [or].....	---			
Spacing.....	---			
Poop Deck, Frame 14 Ford. Angle <u>or T</u> Fr. 13 Aft.....	200 30 10	✓		
Spacing.....	760 & 610	✓		
Bridge Deck, Angle <u>or T</u>	200 30 10	✓		
Spacing.....	760	✓		
Forecastle Deck, Angle <u>or T</u>	230 30 11	✓		
Spacing.....	685 & 610	✓		



PILLARS AND DECKS.

PILLARS, No. of Rows	mm		Any Departure from Approved Plans to be Noted.	mm	mm		Any Departure from Approved Plans to be Noted.	Number Certificate
	IN SHIP.	IN SHIP.			IN SHIP.	IN SHIP.		
Stringer Plate, breadth and thickness in way of Bridge	---	---		---	---			222
Thickness of Plating abreast Deck openings in way of Wells	---	---		---	---			223
Thickness of Plating abreast Deck openings in way of Bridge	---	---		---	---			221
Thickness of Plating within line of openings	---	---		---	---			1*
If Sheathed, material and thickness	---	---		---	---			
Third Deck.								
Stringer Plate, breadth and thickness	---	---		---	---			
If Plated, state thickness	---	---		---	---			
Fourth Deck.								
Stringer Plate, breadth and thickness	---	---		---	---			
If Plated, state thickness	---	---		---	---			
Poop Deck.								
Stringer Plate, breadth and thickness	---	---		1200x12-9-8	---			
Plating, Sheathing, material and thickness	---	---		8	65 m/m Sugi			
Bridge Deck.								
Stringer Plate, breadth and thickness	---	---		1400 x 9	---			
Plating, Sheathing, material and thickness	---	---		8	---			
Forecastle Deck.								
Stringer Plate, breadth and thickness	---	---		1200 x 10	---			
Plating, Sheathing, material and thickness	---	---		9	---			

SHELL PLATING.

STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	RIVETING.			
	AMIDSHIPS.		FORWARD.	AFT.		EDGES		BUTTS.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.	RIVETS.	NO. OF ROWS OF RIVETS.	RIVETS.
Flat Plate Keel	1500	28	28	28		Welded	Welded		
„ Dblg. (if any)	---	---	---	---		--	--		
Bottom Plating, No. of Strakes	---	21	13.5	15		Welded	Welded		
Bilge Plating, No. of Strakes	---	21	15	15		Double	Welded		
Side Plating, No. of Strakes	---	18	13.5	13.5		Welded	Welded		
Upper Deck, Sheer-strake in Wells	1700	28	14	13.5		Double	Welded		
Upper Deck, Sheer-strake in Bridge	---	---	---	---		---	---		
Strake below Sheer-strake in Wells	---	18	13.5	13.5	Upper edge double Lower edge weld	25	100	Welded	
Strake below Sheer-strake in Bridge	---	---	---	---		--	--		
Poop Side Plating	---	---	---	11		Welded	Welded		
Bridge Side Plating	---	11	---	---		Welded	Welded		
Forecastle Side Plating	---	---	---	12		Welded	Welded		

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	15.
„ Deck next below	
As per Rule	

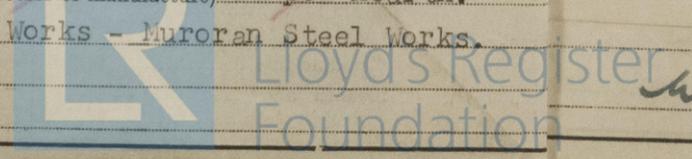
FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings, mm.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar				
STEM		Plate 23-13		
STERN FRAME	Propeller Post	Cast steel as approved		
	Rudder	Kobe Steel Works		
Speed of Vessel		15 knots		
RUDDER—Type		Balanced - reaction		
„ A x D				
„ Diam. of head		350		
„ Mainpiece at top pintle		---		
„ „ heel		---		
„ how constructed		Plates & Diaphragms		
„ double or single plate coupling, vertical or horizontal		Double		

STIFFENERS.

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks					
„ „ Second „					
„ „ Third „					
„ „ Holds	14-11	VERTICAL CORRUGATIONS		3 GIRDERS	
COLLISION „ (in Hold)	13-7	250 x 12.8A	700	610 PLATE WITH 300 x 90 x 12.5 E. 1830	
AFTER PEAK „	14-7.5	230 x 11.8P	680	610 x 10 WITH 300 x 90 x 15.5 E. 1700	

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	Open hearth.
	Yawata Steel Works - Fuji Steel Works - Kawasaki Steel Works - Muroran Steel Works.	
	Has the Steel been tested as required by the Rules?	Yes.



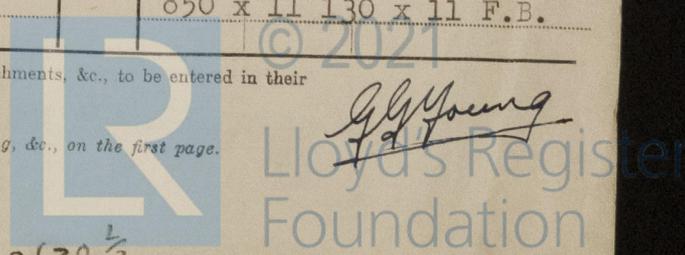
"KIRISHIMA MARU"
PARTICULARS OF LONGITUDINAL FRAMING.

1232

FRAMING.	AMIDSHIPS.			ENDS.			Any Departure from Approved Plans to be Noted.	RIVETING.					
	In Ship.			In Ship.				Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.	Rivets in Brackets to Bulkheads.		
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Diam. Ins.	Speng. Ins.		Inches.	Number.	Diameter. Inches.
of L, L or C							Transverse Bulkhead						
in Bridge 'tween Decks ... from Uppermost Continuous Deck							Centre Tank. Wing Tank						
No. 1				800x11-100FL.			850x11.130x14 F.B. 850x11 150FL						
" 2				800x11-100FL			950x11.150 16FB 900x12.170FL						
" 3				800x12-130FL.			1000x13.200x16FB 975x13.150x16FB						
" 4													
Longitudinals				520x13.120FL			Spaced 760 m/m Apart						
" 5													
" 6													
in Wing Tanks													
" 7				Top			Lower						
" 8				200x12			200x14						
" 9				T.B. 600x12			T.B. 700x14						
" 10													
line longitudinal				200x12			200x14						
to upper deck													
" 11							All Welded Construction in Tanks.						
" 12				1.750x11 -300x14 F.B.									
" 13				Stiffeners 150x11 F.B.									
line longitudinal				2.200x13 -500x30 F.B.									
to bottom shell							Transverse BHDS Corrugated Vertically.						
" 14				With docking brackets									
" 15				Midway between transverses			Longitudinal BHDS Corrugated Horizontally.						
" 16													
acing of longitudinal frames				Amidships									
				At Ends									
Tank Top Longitudinals													
Bottom													
of Longitudinals				Amidships									
				At ends...									
Transverses.													
Decks)				Depth and Thickness									
				Face Angles									
				Lugs to Shell*	Centre Tank		Wing Tank						
				Depth and Thickness			820/1000x12						
				Face Angles			150 Fl.						
				Lugs to Shell*			Welded						
				Depth and Thickness	1200 x 12		1200 x 12						
				Face Angles	150 x 14		150 x 14						
				Lugs to Shell*	Welded		Welded						
				" " Back Bars	-----		-----						
				Brackets	12		12						
ing of Transverse Frames...					3040		3040						
* State if joggled or liners.													
inal				Bridge Deck									
of				Upper	250x30x11 B.A.		250x30x11 B.A.						
or C				Second									
				Third									

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, &c., to be entered in their respective places provided for on the Report Forms.

NOTE.—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, &c., on the first page.



Handwritten notes at the bottom of the page: "Wick Kob", "Deferred", "3 WTB 3126 SH", "119", and "0138 2/3".

EQUIPMENT No. 60612-30

LETTER ht

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.				
222	1st Bower	105	2	0				69	6	0	0	HALLS TYPE.	KOKKO SEISA KOGYO K.K. OSAKA	OSAKA 10.9.52 M.S.
223	2nd "	105	1	11				"	"	"	"	"	D°	D°
221	3rd "	105	0	2				"	"	"	"	"	D°	D°
	Collective weight	315	3	13							285			
217	Stream	31	1	27	8	3	1	30	3	0	0	ADMIRALTY TYPE	D°	OSAKA 6.10.52. M.M.

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.					Clr.	Length.		Clr.	
283	345.2	2 7/16	149.6	209.5	1077.	3.	6.		330	2 1/16	C.S.S.L. MFG. C. L.P.	OSAKA 25.6.1952. K.U.	TOWLINE	130	6 3/8	131.0	130	6 3/8
													HAWSERS & WARPS	120	8"	MANILA	120	8"
														120	8"	MANILA	120	8"
	120	5 1/2		936					120	5 1/2								

Steering Gear, Type (Power or hand) Electric Hydraulic (2 motors) Alternative Means of Steering Hand

Steering Chains (Size and Test) None Windlass Steam Boats 4 steel 150 x 50 Sugi.

Ceiling in Holds, thickness and material 65 W.P. on 40 m/m Bearers Forecastle & Cargo Hatchways.-(Upper Deck) Steel plates & angles. Cargo Battens, thickness, material and spacing 150 apart 10 m/m plates suitably stiffened.

Hatchways No. 1 (Fwd.) 3425 x 4000 No. 2 No. 3 No. 4 No. 5 No. 6

Shifting Beams fore and Afters

THE HARIMA SHIPBUILDING AND ENGINEERING COMPANY, LTD.

Builder's Signature M. Yoshikawa

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

whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo. The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

This ship has been built under Special Survey in conformity with the Society's Rules and Regulations and Secretary's letters. The scantlings and arrangements of the ship are as given in the plans and as shown and amended on the "As Approved" and "As Built" plans now forwarded. All alterations or additions to the original approved arrangements made during construction have been approved on the plans and have been approved as being in accordance with, or by standards equivalent to, the Rule requirements. The plans of midship section and profile and decks showing the ship as now forwarded herewith, have been checked with the approved arrangements and found in order.

The materials and workmanship are good. The weather decks clear of the oil tanks and W.T. Bhd. tank forward have been hosed tested and found satisfactory.

The peak tanks, all cargo tanks, deep tank forward, engine room D.B. tanks and cofferdams, feed tanks aft., have been tested as required by the Rules and found satisfactory.

The requirements of section 20 of the Rules, where applicable for the carriage of oil fuel, flash point above 150°F have been complied with. The windlass, steering and auxiliary gear have been tried under working conditions and found satisfactory. The assigned freeboard have been verified on the ships' sides, verified and cut in. The oil fuel is carried in the bunkers at the end of engine room P & S, E.R. double bottom and forward deep tank.

The amount of Entry Fee... 3620.400 Fees applied for, 23 FEB 1953 Received by me, 10.000

(Special notations, where part of class, to be stated.) Longitudinal framing at bottom and deck I am of opinion the Vessel should be Classed +100A1 "carrying petroleum in bulk".

State whether the Vessel has been built under Special Survey Yes Certificate sent to Kobe Date of issue 31/12/53

Signature G. Young & E. Sakuchi Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 19 JUN 1953 Character assigned +100A1 Carrying Petroleum in bulk Lloyd's A&CP Fitted for oil fuel 10.52 FP above 150°F

ALMC 10.52. Subject. TUESDAY 21 JUL 1953 FD CL 3 WTB 313/6 SP. Lloyd's Register Foundation 0138 3/3

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.)

The following plans are enclosed.

As Built.

Midship Section.

Constructional Profile & Decks.

Stem.

Sternframe.

Rudder.

Shell Expansion.

Longitudinal Bulkheads.

Transverse O.T. Bulkheads.

Double Bottom - (E.R.)

Bow Framing.

Stern Framing.

Forging & Casting Certificates.

Rudder Stock.

Stern Frame.

Tiller.

Rudder Casting.

Sister Vessels. Nichiei Maru Harima No.453 Report No.25

Terukuni Maru Harima No.454 Report No.32

Toei Maru Harima No.475 Report No.114

PARTICULARS OF ELECTRIC WELDING (if employed) Shell butts & seams (with the exception of sheer & bilge strake seams) upper deck butts and seams (stringer angle riveted) all remainder of decks - house casings frames - deck & bottom, transverse, longitudinal & girders.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book
Cruiser stern - Lloyds A & C.P. - E.S.D. - D.F. - Radar -
GYC - partly welded - machy aft - longitudinal framing
bottom & decks.

RADAR Equipment (State if fitted).....
State Type or Pattern No. Ratheon.
State Name of Maker and/or Supplier Nippon Kikai Boeki Co.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	Ist Bower	CERT. No	Date	Material
	68-2-0	A. 8373	11-8-52	M.S.
	68-1-6	" A 8374	11-8-52	M.S.
	68-1-15	" " A. 8372	11-8-52	M.S.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 126.47 ft., R.Q.D. ft., Bridge 42.37 ft., Forecastle 82.0 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 69438 Signal Letters J A U K Extreme Breadth over Belting (Circ. 1611) Over-all Length 570.37 (Circ. 1703)

No. and Material of Decks 1 Steel - 2nd Deck Aft.

Parts of Bottom of Vessel coated with cement or approved composition Fore & Aft Peaks - D.B. F.W. tanks - Feed & F.W. Tanks Aft.

Particulars of composition (if fitted) and of approval

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,			Fore peak tank, Fresh water	36.0	289.25
Double bottom, under Engines and Boilers,	2.5		After peak tank, Fresh Water	20.0	77.9
Double bottom, if under Engines only, OF & LO	39.9	134.8	Deep tank, aft, FW Tk. Fr. 10-14	8.0	156.8
Double bottom, if under Boilers only,			Deep tank, forward, Deep Tk. Fd. Oil Fuel	35.8	1092.4
Double bottom, forward,			Other tanks, if fitted, FW Tk. Fw. Dk. 0-10	20.0	212.5
Total length (if continuous) and Capacity	42.4	134.8	(If necessary furnish further information by sketch.)	18-23	108.2
			Feed Water 23-32	22.4	311.8

Order for Special Survey No.

Date

Dates of Surveys held while building

G.G.Y. 1952: March 29, May 15, Aug. 19, Sept. 24, Aug. 17, 27
K.T. 1952: July 11, 14, 16, 18, 21, 23, 28, 30 Aug. 1, 4, 6, 8, 11, 12, 13, 14, 20, 22, Oct. 18, 24, 27
J.N. 1952: Feb. 28, March 27, April 4, May 2, 6, 20 June 7, 25 July 4, 7
Y.K. Prefab Section Kure - April 18, 28, May 16, 17, 20, 24, June 7,
M.K. " " " " July, 1, 10

Total No. of Visits