

Rpt. 1.

DISCLOSED
SECTION

STEEL STEAMER or MOTORSHIP.

DISCLOSED
SECTION

No. 946

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

No. 946

No. FE-5181

Date of completion of report

10th January, 1958.

Port of

KOBE

Survey held at

Aioi

Date First Survey 26th March, 1957

Last Survey 22nd October, 1957.

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

Single Screw Motor Tanker "HOEI MARU" (Machinery Aft)

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

Full Scantling

State Type of Erections

Fcle. & Poop.

TONNAGE under Tonnage Deck

18,956.90

CLASS

+100A1 carrying Petroleum in bulk

State if with freeboard as condition of Class

(No)

Built at

Aioi, Japan

Launched

28th July, 1957 Yard No. S.512

Builders

Harima S.B. & Eng., Co., Ltd.,

Owners

Nitto Shosen K.K.

Managers

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

Residence

Port of Registry

Tokyo

If surveyed while building, afloat, & in dry dock

Yes, undocked on 8th Oct., 1957.

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Total

Gross Tonnage

20,257.13

Register Tonnage

14,000.38

REGISTERED DIMENSIONS.
FEET.

Length

635.269

Breadth

87.008

Depth

45.505

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

L 631.627

Breadth (greatest moulded)

B 87.000

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

D 45.500

1st Longitudinal Number (L x D) =

2nd Numeral L x (B + D) =

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

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

Do. Long Bridge to top of keel

Draught Moulded J.G. Assigned

10.4095

FRAMES, DOUBLE BOTTOM AND BEAMS.

	XXXX mm	Any Departure from Approved Plans to be Noted.		XXXX mm	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	See Rpt. 1* Attached.		Bracket Floors, Frame	-	
" " from 3/8 length to Collision bulkhead	3,010 (Fr. No. 97 to 101)		" " Reversed Frame	-	
" " in peaks	1,070 (Fr. No. 101 to 102)		" " Vertical Struts	-	
	685 (Fr. No. 102 to 123)			-	
	610			-	
IDE FRAMING in Machinery space			Centre Girder, depth and thickness amidships	2120 x 16.5	
Frame Amidships Angle, XXXX	250 x 90 x 12/16		" " top Angles	Electrically Welded	
" " Extends up to	Upper deck		" " bottom Angles	- Do -	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	Three x 13.5	
" " Extends up to			MARGIN PLATE depth (excl. of flange) and thickness	Flat, 16.5	
Depth of Framing Girder			" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	-	
Frames in Uppermost Continuous 'tween Decks, Angle, [or [" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	-	
" " Second 'tween Decks, Angle, [or [" " Gussets, spacing and scantling abaft 1/2 len. from stem	-	
" " Third " " "			" " Gussets, spacing and scantling forward 1/2 len. from stem	-	
Framing in Peaks, Angle or [Tank Side Brackets, height above base line at toe of Frame and thickness		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships			INNER BOTTOM PLATING.		
State if Frame Joggled			Breadth and thickness of Middle Line Strake	1,830 x 18	
Are the scantlings & arrgts. in the scantling Area in accordance with the Rules and/or as approved?			Thickness of remainder	16.5	
Are the scantlings & arrgts. in way of the Bottom Forward in accordance with the Rules and/or approved?			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, Longitudinal amidships		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, [or [See Rpt. 1*	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [or [
Middle Line Keelson, on Floors, Angles, [or [Spacing		
" " Through Plate or Intercoastal Plate			Second Deck, amidships, Angle, [or [-	
" " Foundation Plate on Floors			Spacing	-	
" " 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, XXXX	1A	
Solid Floors, thickness and spacing	13.5 every frames		Spacing	610 & 710	
" " Are Frame and Reversed Frame reversed?	610 and 710		Bridge Deck, XXXX	B. PL	
Bracket Floors, breadth and thickness at middle line	20, and 16.5 under eng.		Spacing	3,010/4	
" " breadth and thickness at margin plate			Forecastle Deck, XXXX	1A	
			Spacing	610 & 685	

PILLARS AND DECKS.									
✓ INDICATES P.403 STEEL		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. TWO LONGITUDINAL		BHDs IN CARGO TANKS AS APPROVED		Stringer Plate, breadth and thickness in way of Bridge					
LONGITUDINAL BULKHEADS IN CARGO TANKS		19-11-17		14. Thickness of Plating abreast Deck openings in way of Wells					
" " " " "		VERTICAL		HORIZONTAL (FL PL) in way of Wells					
" " " " "		1200x50		200x100x11x5					
" " " " "		WITH FLANG		230x90x13x2					
" " " " "		300x50		250x90x13xONE					
" in Holds		(EVERY FRAMES)		280x100x11x					
" " " " "		Trans ✓		290x100x11x					
" " " " "				300x90x13x2					
" " " " "				330x100x11xONE					
" " " " "				350x100x11x					
" " " " "				370x100x11x					
Centre Line Bulkhead, IN FORD DEEP TANK		230x11 B. PL. 675		Third Deck.					
Stiffeners and Spacing				Stringer Plate, breadth and thickness					
Plating, thickness of		8.5-10.5		If Plated, state thickness					
STRINGERS AND DECKS.				Fourth Deck.					
Uppermost Continuous Deck.		2,150x31.5 ✓		Stringer Plate, breadth and thickness					
Stringer Plate, breadth and thickness in Wells				If Plated, state thickness					
" " " " in way of Bridge		2,150x37.0 ✓							
and Poop breaks		200x200x29 ✓		Poop Deck.					
" Angle in Wells				Stringer Plate, breadth and thickness		20-18-15-11			
Thickness of Plating abreast Deck openings in way of Wells		30 ✓		Plating, Sheathing, material and thickness		9.5-8.5			
Thickness of Plating abreast Deck openings in way of Bridge		30 ✓		Bridge Deck.					
" in way of Poop Break		36 ✓		Stringer Plate, breadth and thickness		9.5 ✓			
If Sheathed, material and thickness		No ✓		Plating, Sheathing, material and thickness		8.5 ✓			
Second Deck.				Forecastle Deck.					
Stringer Plate, breadth and thickness in Wells				Stringer Plate, breadth and thickness		9.5 ✓			
				Plating, Sheathing, material and thickness		9.5 ✓			

SHELL PLATING.									
SCANTLINGS.					RIVETING.				
STRAKES.	AS IN VESSEL.				EDGES.		BUTTS.		
	AMIDSHIPS.		FORWARD.	AFT.	State if jogged?	SINGLE OR DOUBLE.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.	
FLAT PLATE KEEL	2100	31 ✓	31 ✓	31 ✓	Electrically welded				
" DBLG. (if any)	2190		A.C. 24 17		-				
BOTTOM PLATING, No. of Strakes	1840	28 ✓	D-20	B-17	C/D		28	3 3/4 D	
BILGE PLATING, No. of Strakes	2283	28 ✓	-	17 ✓	E/F D.R.		28	3 3/4 D	
SIDE PLATING, No. of Strakes	1820	20 ✓	16 ✓	15 ✓	G/H D.R.		25	3 1/2 D	
UPPER DECK, Sheer-strake in Wells	2235	32 ✓	17 ✓	20 ✓	N/S D.R.		28	3 3/4 D	Electrically
UPPER DECK, Sheer-strake in way of breaks of superstructure	2235	40 ✓	-	-	S to Str. Angle Reeled		1 1/8"	5D	Welded
STRAKE BELOW Sheer-strake in Wells	1820	20 ✓	N	-	At breaks		28	4D	
STRAKE BELOW Sheer-strake in Bridge	1820	20 ✓	-	-					
POOP SIDE PLATING	-	-	-	P-19-13	Electrically Welded				
BRIDGE SIDE PLATING	-	-	-	-	Electrically Welded				
FORECASTLE SIDE PLATING	-	-	13 ✓	-	Electrically Welded				

WATERTIGHT BULKHEADS. in m/m					FORGINGS and CASTINGS.				
Total No. of W.T. BULKHEADS in Vessel						Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted
Extending to Upper Deck (Sec. 3 c)					14				
" Deck next below					No				
As per Rule					-				
					STIFFENERS.				
					Plating Thickness.	VERTICAL.		HORIZONTAL.	
						Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper seven decks					11-11.5	ORDINARY	750	990x50	790
FR. NOS. 65, 69, 73, 77, 81, 85, 89, 93					12-50	250x90x1/16	790	WITH 150x50	0.839
" " Second					14.5	WEB		990x50	
" " Third						CENTER		990x50	7.790
" " Holds						FLANG 600x25	ONE EACH	WITH 250x50	5.510
COLLISION						700x50	ONE EACH	WITH 250x50	3.230
AFTER PEAK						FLANG 100	ONE EACH	WITH 250x50	3.230
								ONE TANKTOP	
								3 HORIZONTAL GIRDERS	
								2 FLATS	
								ONE STRINGER	
STEEL.					Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)				
					Open herth				
					plates as indicated on plans of P.403 quality.				
					Has the Steel been tested as required by the Rules?				
					Yes				

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.)

No Sister Ship.

As Approved Plans

Midship Section.
Profile and Deck Plan.
Shell Expansion.
Rudder.
Stern frame.
Bow Construction, Stern Construction.
Typical Transverse O.T. Bhd.
Longitudinal O.T. Bhd.
For'd Deep Tank.
Pumping Plan.
Double Bottom Construction.
General Arrangement.
P.403 Steel particulars.

As Fitted Plans

Midship Section.
Profile and Deck Plan.
Capacity Plan and Deadweight Scale.

List of Certificates

Tillar; Rudder stock, Stern frame, Upper and Lower, Rudder frame castings.✓

Moulded Dimensions - L x B x D - 192.02 (630'-0") x 26.52 (87'-0") 13.87 (45'-6")
Camber of Upper Deck - 610m/m straight line.
Rise of Floor - 110mm.✓

Particulars of Electric Welding (if employed):- Main structures electrically welded with the exception of the following connections which are rivetted:- Bottom Shell plating seams "C" to "D", "E" to "F", "G" to "H", and Sheer strake lower seams over 1/2L. Upper deck stringer angle to deck and shell. Other minor items. The Rules applying to electric welding have been complied with. The electrodes used are "Approved for Ship construction". Radiographic inspection of welding was carried out with satisfactory results.

SPECIAL NOTATIONS:- Either as part of the vessel's class or for record in the Register Book
Cruiser stern, Lloyd's A & CP,
Machinery aft, Longitudinal framing, carrying petroleum in bulk, diesel engine. Direction finder,
Echo sounding device, gyro compass, Radar, (part electric welded).
RADAR Equipment (State if fitted) ---- Yes. State Type or Pattern No. --- Sperry Type, MK-2 MOD
State Name of Maker and/or supplier: --- Tokyo Keiki K.K.

Particulars of Drop Test of Cast Steel Anchors, viz.:- Weight, Surveyor's Initials, Number of Certificate, Date of Test.	3rd Bower	A-41738	4,400 kgs✓	13-6-57	M. Sugihara	LR No. Kob. 445
	2nd "	A-42184	4,430 kgs✓	28-6-57	"	" 446
	1st Bk "	A-42185	4,440 kgs✓	29-6-57	"	" 448

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 127.9 ft., R.Q.D. - ft., Bridge 40 ft., Forecastle 87.9 ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

No. and Material of Decks One Deck, Steel
Extreme Breadth over Belting: 87.3 (87'4") Overall-Length 663.3 (663'4")
(Circ.1611) (Circ.1703)
Official No. 79107 ; Signal Letters J.H.X.Y. Is bottom of vessel coated with cement Bottom of fore and aft peaks cemented. if not give particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. K. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. K. Tons.
(No.1 (p))			Fore peak tank, Fr.123 to F.end		412.0
(No.2 (p)) FD.W.			After peak tank, (No.1 F.O.T. (p)	14.385	842.0
(No.3 (c))	16.940	204.0	Deep tank, aft, (No.2 F.O.T. (s)	14.385	842.0
(No.4 FRW	6.100	34.0	Deep tank, forward (Ford Coff. (p)	1.070	119.0
			Other tanks, if fitted (Art Coff. (p)	1.070	138.0
			(If necessary, furnish further information by sketch.)	1.070	115.0
			No.1 Fr.W. Capacities		
			No.2 " (s) 60 K.T.		
			No.3 " 204 K.T.		
			Total:	2,627.0	

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

Order for Special Survey No. 512

Date 14- 6-1956.

Dates of Surveys held while building

AMH: 1957: April, 18.
HMcL: 1957: April, 22

1957:
KU: 12, 3, 9, 13, 15, 17, 20/April, 4, 10, 20, 23, 28, 30, 31/May, 3, 6, 10, 11, 14, 17, 19, 20, 22, 24, 25, 27, 28, 29/June, 1, 3, 4, 8, 10, 12, 16, 17, 18, 27/July, 4
WNGM: 7/June, 1957.

PARTICULARS OF LONGITUDINAL FRAMING.

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.
	Diam. Ins.	Speng. Ins.	Diam. Ins.	Speng. Ins.		Number.	Diameter. Inches.	Number.	Diameter. Inches.
Bottom Longitudinal Frames									
Nos. 1, 2, 3, 5, 6, 7 in Centre Tanks					460x140x.5" FL.PL.✓				
Nos. 9, 10, 11, 13, 14, 15 in Side Tanks					1190x200x.5" FC.PL.✓				
No. 4 in Centre Tanks									
No. 12 in Side Tanks									
Side Longitudinal Frames									
No. 16 460x130x.50" FL PL ✓									
No. 17 430x100x.50" FL PL ✓									
No. 18 400x100x.50" FL PL ✓									
No. 19 370x100x.50" FL.PL.✓									
No. 20 360x100x.50" FL.PL.✓									
No. 21 340x100x.50" FL.PL.✓									
No. 22 320x100x.50" FL.PL.✓									
No. 23, 24 300x 90x13/17 Inv. A.✓									
No. 25 290x100x.50" FL.PL.✓									
No. 26 280x100x.50" FL.PL.✓									
Nos. 27, 28 250x90x12/16 Inv. A.✓									
No. 29 230x90x12/16 "✓									
Nos. 30, 31 200x90x12/16 "✓									
Nos. 32, 33 250x90x12/16 "✓									
Centre Line to No. 12 - 790✓					No. 12 to No. 15 - 760,✓			No. 15 to No. 18 - 790 (about)✓	
No. 18 to No. 34 - 760.✓									
Cross Ties in Side Tanks									
Upper - 760x.50" with 300x.50" FC.PL at Top and Bottom.✓									
Lower - 760 x .50" 350x.50" FC.PL " " " "✓									
Transverses.									
Depth and Thickness 990 x .50" with 250 x .50" FC.PL. in Centre Tank ✓									
Stiffeners 150x.50" 790 spaced in Centre Tanks ✓									
1200x.50" with 300x.50" FC.PL. ✓									
Stiffeners 150x.50" 760mm spaced. ✓									
1450 x .50" with 200x20 FC.PL. in Centre and Side Tanks. ✓									
Stiffeners 180 x .50" 790 spaced in Centre Tanks. ✓									
180 x .50" 790, 760 spaced in Side Tanks. ✓									
3,010 m/m ✓									
Transverse Beams.									
Nos. 1, 2, 3, 5, 6, 7 in Centre Tanks, 280 x 100 x 11 FL.PL. ✓									
Nos. 9, 10, 11, 13, 14, 15, 16 in Side Tanks, 280x100x11 FL.PL. ✓									
No. 4 in Centre Tank 740 x .50" with 200 x .50" FC.PL. ✓									
No. 12 in Side Tank									

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.

