

State if Report is sent on the Machinery of the Vessel.

No. 1770

Date First Survey 8th April 1953 Last Survey 24th October, 1953

Single Screw Motor Ship "HIYEHARU MARU"

State Type of Erections Flush decker
with Ficle.

State if with freeboard } No
as condition of Class }

Built at Kobe

Length from fore part of stem to after part of stern }
post on summer L.W.L. See Sec. 3 (1a) } L 439.63

Breadth (*greatest moulded*) **B** 60.69

Depth, at middle of length from top of keel to top
of beam at side of uppermost continuous
deck. See Sec. 3 (1c) } D 37.40

1st Longitudinal Number (L x D) =

2nd Numeral $L \times (B + D)$ _____ =

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 S. 27.98

Launched 28th July, 1953 Yard No. 855

Kobe Shipyard & Eng. Wks.

Builders Shin Mitsubishi Heavy Ind.Ltd.

Owners Shin Nihon Kisen K.K.

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

Residence

Port of Registry Nishinomiya, Japan

If surveyed while building, afloat, or in dry

dock Yes, undocked 7-10-53.

DECK IN SHIP.		Any Departure from Approved Plans to be Noted.		DECK IN SHIP.		Any Departure from Approved Plans to be Noted.	
m/m				m/m			
IES, Spacing amidships	830			Bracket Floors, Frame	---		
from $\frac{3}{8}$ length amidships to Collision bulkhead	685			Reversed Frame	---		
in peaks	610			Vertical Struts	---		
FRAMING. built up	28-51 (C) 100 x 16			Centre Girder, depth and thickness amidships	1190x13.5		
Amidships, Angle, \square or \square	53-69 (C) 350 x 13			top Angles	---		
Extends up to 2 nd Deck	71-92 (C) 90 x 13			bottom Angles	---		
Side Frame Amidships, Angle	94-113 (C) 100 x 16			Side Girders, No. each side and thickness	One 9.5		
Extends up to 2 nd Deck	115-124 (C) 330 x 12			Margin Plate depth (excl. of flange) and thickness	13.5		
Uppermost Continuous 'tween Decks, Angle, \square or \square	FR. 3/51 200 x 90 x 8/16.5			Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	---		
Second 'tween Decks, Angle, \square or \square	53/113 200 x 10 B.P.			Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	12.5		
Third 'tween Decks, Angle, \square or \square	115/161 200 x 90 x 8/16.5			Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem	continuous		
from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	100 x 8 350 x 13 90 x 13			Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area	continuous		
in peaks, Angle or \square	230 x 150 x 11 AP			Tank Side Brackets, height above base line at toe of Frame and thickness	2000x12.5		
Spacing of Rivets through Frame and Shell Plating amidships	230 x 90 x 11 AP			INNER BOTTOM PLATING.	1400x13		
if Frame Joggled	Yes for Riveting			Breadth and thickness of Middle Line Strake	11.5 at ends		
the scantlings and arrangements in the Plating Area in accordance with the Rules or as approved?	Yes			Thickness of remainder in Holds	11.5		
the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes			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		
BE BOTTOM.				BEAMS.			
Depth and thickness at mid-line in Holds	---			Uppermost Continuous Deck, amidships in Wells, Angle, \square or \square	200x90x8/13.5		
Height of Brackets at side above base line at toe of frame	---			" " in way of Bridge, Angle, \square or \square	200x90x8/13.5		
Line Keelson, on Floors, Angles, \square or \square	---			Spacing	830		
" " Through Plate or Inter-costal Plate	---			Second Deck, amidships, Angle, \square or \square	200x90x8/13.5		
" " Foundation Plate on Floors	---			Spacing	830		
" " Flat Plate Keel Angles	---			Third Deck, amidships, Angle, \square or \square	---		
each side	---			Spacing	---		
Character assigned	10.53 Ko.			Fourth Deck, amidships, Angle, \square or \square	---		
	Lloyds A + C.			Spacing	---		
	every Frame			Fifth Deck, Angle, \square or \square	---		
	errated			Spacing	---		
				Sixth Deck, Angle, \square or \square	---		
				Spacing	---		
				Forecastle Deck, Angle, \square or \square	150x90x12		
				Spacing	610		

Write Kol. (m.)

R.M.C. SRL

008765-008772-0145 1/2

PILLARS, AND DECKS.					
	KKXX IN SHIP. m/m	Any Departure from Approved Plans to be Noted.		KKXX IN SHIP. m/m	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows Widely spaced	Two	✓	Stringer Plate, breadth and thickness in way of Bridge	---	
" in 'tween Decks, Size and Spacing	11x180 ∅	✓	Thickness of Plating abreast Deck openings in way of Wells	9.5	
" " " " " "			Thickness of Plating abreast Deck openings in way of Bridge	---	
" in Holds " For'd "	16x400 ∅ to 14.5x340 ∅	✓	Thickness of Plating within line of openings	8	
" " " " " Aft'd "	15x430 ∅ to 15.5x370 ∅	✓	If Sheathed, material and thickness	---	
Cargo Line Bulkhead			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	1800x24 (16 For'd (13 Aft'd		If Plated, state thickness		
" in way of	1800x26 to 24		Fifth Deck		
Bridge ("House")			Stringer Plate, breadth and thickness		
" Angle in Wells	200x200x25 ✓		Plating, Sheathing, material and thickness		
Thickness of Plating abreast Deck openings in way of Wells	22.5 (16 For'd (13 Aft'd ✓		Sixth Deck		
Thickness of Plating abreast Deck openings in way of Bridge	20 to 18 ✓		Stringer Plate, breadth and thickness		
Thickness of Plating within line of openings	10 to 9 ✓		Plating, Sheathing, material and thickness	10 ✓	
If Sheathed, material and thickness	---		Seventh Deck		
Second Deck.			Stringer Plate, breadth and thickness	---	
Stringer Plate, breadth and thickness in Wells	13 to (12 For'd (11 Aft'd		Plating, Sheathing, material and thickness		

SCANTLINGS.				RIVETING. in M/M								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.			
	in M/M					State if jagged?	No		No. OF Rows OF RIVETS.	RIVETS.		STRAPS LAPS.
	AMIDSHIPS.	FORWARD.	AFT.				SINGLE OR DOUBLE.	RIVETS.		Diam.	Spacing cr. to cr.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
Flat Plate Keel	1390	22	22	22		D.R.	25	104		All Welded		
„ Dblg. (if any)		-----					-----					
Bottom Plating, No. of Strakes (A B C D E)		19	20.5	19	19-13	D.R.	25	104				
Bilge Plating, No. of Strakes 1 (F)		18	16-12	16-13		D.R.	25	104				
Side Plating, No. of Strakes 4 (G H J L)		17	16-12	16-12		J.H & G Welded						
						D.R.	22	92				
Upper Deck, Sheer-strake in Wells	1800	22	20-12	20-12		M & L Welded						
Upper Deck, Sheer-strake in Bridge		-----					-----					
Strake below Sheer-strake in Wells		17	16-12	16-12		M & L Welded						
						D.R.	22	92				
Strake below Sheer-strake in Bridge		-----					25	104				
		-----					-----					
Pop side Plating		-----					---					
		-----					---					
Bridge Side Plating												
Forecastle Side Plating	-----		.105	--		S.R.	19	76				

Total No. of W.T. BULKHEADS in Vessel—				
Extending to Upper Deck (Sec. 3c) <u>8</u>				
Deck next below _____				
As per Rule <u>7</u>				
STIFFENERS. m/m				
	Plating Thickness. m/m	VERTICAL.		HORIZONTAL.
		Scantlings.	Spacing.	Scantlings.
				Spacing.
MIDSHIP BULKHD, Upper 'tween decks	<u>7/6.5</u>	<u>100 x 7.5 x 7</u>	<u>700</u>	<u>500</u>
" " Second "				
" " Third "				
" " Holds	<u>10.5/7.5</u>	<u>250 x 90 x 13</u>	<u>700</u>	<u>600</u>
COLLISION " (in Hold)	<u>13.5/7.5</u>	<u>200 x 90 x 13.5</u>	<u>610</u>	STRINGS As APP
AFTER PEAK "	<u>12.5/7.5</u>	<u>200 x 90 x 13.5</u>	<u>610</u>	

	Casting or Forging.	Scantling.	Maker's Name.	Size from Plans
KEEL, Bar		Flat plate		
STEM		Rolled steel Pl.		B
STERN		As	Amagasa	
FRAME	Propeller Post Machined	C.S. Approved	Iron & Works	
Speed of Vessel		15.5K		
RUDDER—Type		Balanced by Builder		
" A x D		--- Dia.	Amagasaki	
" Diam. of head		C.S. 290mm	& Stl. Ku	
" Monopiece at top pintle		C.S. As		Side
" Frame		C.S. Appr		
" " heel		C.S.		Sh
" how constructed				
" double or single				
" coupling				
" horizontal				

No. of anchors	Anchors	Weight. Ex. Stock.			Weight of Stock.			Test, per Certificate.				WEIGHT REFOUTED BY TABLE 53.		Description of Anchor.	Makers.	Where and when tested, and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
7	1st Bower	76	3	0										Latest Hall's Type	Tokyo	At Maker's 2-7-53 J.N. ✓
5	2nd "	76	2	6				57	5	0	0			"	Steel	
6	3rd "	76	1	12										"	Casting	
	Collective weight	229	2	18	✓							219½ ✓			Co., Ltd. Tokyo	
8	Stream	23	1	19	✓	5	3	17	23	10	0	0	22 ✓	Admiralty Type		

No. of Cable.	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.	Stanno. Tons.	Break. Ing. Kgs.	Supplied.	Per Rufe.	Length.	Diam.					Length.	Ch.		Fathoms.	Ins.
5585	54	1156	16180	38.787	34375	550	54	CS. STUD LARK	John Recheimer Chain Mfg Co. Boston.	AT HAKOD. 17.4.53 M.S. 6.5.53 M.S. 11.8.53 M.S. 21.5.53 AM.	POWLINE	132 5/4	82.5	126 5	185 203	185 203	
225	127	584	935	220	127	220	127	GAL. F. TEIKOKU SANGYO KK. ST. W.R. KAIZUJKA.	AT HAKOD. 16/6/53 Y.M.			195 203	185 203				

ing Gear, Type (Power or hand) Janney's Type Alternative Means of Steering Hand Alluminium Alloy

ing Chains (Size and Test) ----- Windlass Steam driven Beats 2 50x230

ing in Holds, thickness and material 63m/m (Momi) on 19m/m sleeper Cargo Battens, thickness, material and spacing Momi

Hatchways. - (Upper Deck) Steel plates and angle Thickness of Hatches 75m/m spruce

of Hatchways No. 1 (Fwd) 6775x6100 No. 2 12490x7000 No. 3 10790x7000 No. 4 6640x7000 No. 5 12450x7000 No. 6 7030x6100
in m/m

ber of Shifting Beams 4 8 7 4 8 4
d/or Fore and Afters

N. Ishikawa
for S. Murakami
Director & General Manager

This vessel has been built under special survey in conformity with the Secretary's letters the Society's Rules. The scantlings and arrangements of this ship are as given in the report as shown on the approved (See builders ship S.846 & 850 plans) amended and as fitted plans now forwarded. All modifications or additions to the original approved arrangements made during construction have been indicated on the plans and have been approved as being in accordance with standard equivalent to the rule requirements. The plan of midship section, and profile and plans showing the ship as built now forwarded herewith have been checked with the approved arrangements and found to be in order. The materials and workmanship are good. The peak tanks, all double bottom tanks, cofferdams and deep tanks have been tested as required and found satisfactory. W/T bulkheads and decks have been hoist tested and found satisfactory. The deep tanks in No. 4 are constructed for the carriage of O.F. F.P. above 150°F and for the carriage of vegetable in bulk.

Whether the Vessel has been built under Special Survey Yes ☒ *not need*
in trip
 Certificate sent to Kobe Office ☒ Date of issue 2/2/57 Signatures K. Hayama
 Surveyors to Lloyd's Register of Shipping.

Committee's Minutes
Character assigned

TUESDAY 12 JAN 1954
+100 A1 Carrying oil fuel F.P. above 150°F. or vegetable oil in deep tank

10.53 Kol.
Lloyds A & C.
+ LMC 10.53 Pil Eng. (Torsional Endorsement.)
2 DB (WT) 128 lb.

Write Kol. (m.)

R.M.C. SRL.

0145 $2\frac{1}{2}$

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 Li 4b.
the Plans should be embodied).

Sister Ship:- No. of Report Kobe Office Nos. 1108 and 1324.

Name "MUKOHARU MARU" and "ASOHARU MARU" Kobe Shipyard & Eng., Works, Shin
Mitsubishi Heavy Ind., Ltd. Approved plans previously forwarded.

The Freeboard has been assigned by the Japanese Government, Freeboard verification form
attached herewith. The steering gear and windlass have been tested with satisfactory result
O.F. flash point above 150°F can be carried in Nos. 1,2,3,5,6 & 7 D.B. tanks and deep tanks
A, B, C, & D tanks.

The following plans accompany this report:-

As Built:- Stern frame,	As Fitted:- General Arrangement,
Stem,	Midship Section,
Shell expansion and framing plan,	Profile and decks,
Rudder,	Capacity plan,
Bow Construction,	
Stern Construction,	
Double Bottom,	
Deep Tank,	
W/T Bulkhead,	
Wing Tank and shaft tunnel,	

The following Certificates accompany this report:-

Stern frame, Rudder stock, Rudder frame scupper and lower tiller.

P 403 steel details herewith.

PARTICULARS OF ELECTRIC WELDING (if employed) Shell butts, beams, girders, etc., D.B. & T.Top plating,
bulkhead, E. Casing and deck house are electrically welded using electrodes approved by the
Society for each purpose and methods approved by and to the satisfaction of the undersigned.

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

Cruiser stern, Lloyd's A & C.P. D.F. Gys. E.S. W/T part
electrically welded, carriage O.F. flash above 150°F or
vegetable oil in deep tanks (No.4 H).

RADAR Equipment (State if fitted Yes

State Type or Pattern No. Mariner's path fiP ab
1404 type.

State } Maker Raytheon (U.S.A.)
Name } and/or
of } Supplier Nihon Kikai Boeki K.K.To

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	cwt	qrs	lbs	Y 4743	26-6-53	K.Nakano
	2nd "	49	0	22	Y 4741	26-6-53	K.Nakano
	3rd "	49	0	0	Y 4742	26-6-53	K.Nakano
	Stream	23	1	19	Y 4744	26-6-53	K.Nakano

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop -- ft., R.Q.D. -- ft., Bridge -- ft., Forecastle 44.3

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

Official No. 70180 Signal Letters J B C W Extreme Breadth over Belting -- Over all Length 475
(Circ. 1611) (Circ. 1703)

No. and Material of Decks Two, steel

Parts of Bottom of Vessel coated with cement or approved composition Water tank cement coated

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. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Ca Tons.
Double bottom, aft,	130.7	495.5	Fore peak tank,	--	82.8
Double bottom, under Engines and Boilers,	26.5	--	After peak tank,	C. (S.S.)	136.8
Double bottom, under Boilers only	--	--	Deep tank, aft,	D. (P.S.)	728.8
Double bottom, under Boilers only	--	--	Deep tank, forward,	--	697.8
Double bottom, forward,	171.4	600.85	Other tanks, if fitted,	--	--
Total length (if continuous) and Capacity	351	1096	(If necessary furnish further information by sketch)	--	--

Order for Special Survey No.

Date

Dates of Surveys
held while building

R.I.	23/6
G.G.Y.	14 Oct/1953.
T.F.N.	27 May
K.U.	8, 27, 29/May. 3, 15, 20, 25, 27, 29, 30/June. 14, 6, 9, 10, 13, 15, 16, 18, 2
Y.K.	24, 28/July. 6/Aug. 13, 16, 17, 19, 23/Oct. 1953.
K.T.	

Total No. of Visits 31

No S.S.O.F. available.

