

## STEEL STEAMER OR MOTORSHIP.

14 OCT 1955

DISCLOSED

SECTION

No. 945

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

State if Report is sent on the Machinery of the Vessel

SEP. 26 1955

Port of KOBE

No. FE-3026

Date of completion of report

Survey held at Kobe

Date First Survey 18th November, 1954 Last Survey 20th July, 1955.

On the Single Screw Motor Ship "HIKAWA MARU"

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

State Type of Erections Forecastle

TONNAGE under 20,804.567 M<sup>3</sup>  
Tonnage Deck ...

CLASS +100A1

State if with freeboard as condition of Class (No)

Built at Kobe

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

Length from fore part of stem to after part of rudder post on summer L.W.L. See Sec. 3 (1a) 434.40

Launched 25th April, 1955 Yard No. 240

Total

Breadth (greatest moulded) B 59.71

Builders Kawasaki Dockyard Co., Ltd.

Gross Tonnage 8,092.32

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 38.39

Owners Kawasaki Kisen K.K.

Register Tonnage 5,600.79

1st Longitudinal Number (L x D) =

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

## REGISTERED DIMENSIONS.

FEET

Length 443.59

Breadth 59.71

Depth 38.45

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 Japanese Government Assigned 26.53'

Residence

Port of Registry Kobe

If surveyed while building, afloat, or in dry dock while building, Afloat and in drydock Ship undocked 5-7-55.

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	IN SHIP. m/m	Any Departure from Approved Plans to be Noted.		IN SHIP. m/m	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	850	/	Bracket Floors, Frame	-	/
" " from 1/2 length amidships to Collision bulkhead	685	/	" " Reversed Frame	-	/
" " in peaks	610	/	" " Vertical Struts	200x90x10 B.A. (on All Bkt. Floors)	/
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1150 x 13.5	/
Frame Amidships, Angle, [ or ]	380x100x10.5/16	/	" " top Angles	Welded	/
" " Extends up to	2nd Deck	/	" " bottom Angles	Welded	/
Reversed Frame Amidships, Angle	-	/	Side Girders, No. each side and thickness	One 9.5	/
" " Extends up to	-	/	Margin Plate depth (excl. of flange) and thickness	1100 x 13.5	/
Depth of Framing Girder	380	/	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	Welded	/
Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]	180x9.5 of dk. transv.	/	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	Welded	/
" " Second 'tween Decks, Angle, [ or ]	-	/	" " Gussets, spacing and scantling abaft 1/2 len. from stem	12.5 at every frame	/
" " Third " " " "	-	/	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	-	/
" " from 1/2 len. for'd. to 15% len. from Stem	380x100x10.5/16 + 75x14 B. in No. 1 Hold	/	Tank Side Brackets, height above base line at toe of Frame and thickness	2100 x 12.5	/
" " in Peaks, Angle or [	230 x 11	/	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	Welded	/	Breadth and thickness of Middle Line Strake	1400x 13/11	/
State if Frame Joggled	Yes	/	Thickness of remainder in Holds	11.5/10	/
Are the scantlings and arrangements in the Panting Area 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	/
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes	/	BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, [ or ]	See Rpt. 1*	/
Floors, Depth and thickness at mid-line in Holds	-	/	" " in way of Bridge, Angle, [ or ]	-	/
Height of Brackets at side above base line at toe of frame	-	/	Spacing	-	/
Middle Line Keelson, on Floors, Angles, [ or ]	-	/	Second Deck, amidships, Angle, [ or ]	230 x 11	/
" " Through Plate or Inter-costal Plate	-	/	Spacing	850	/
" " Foundation Plate on Floors	-	/	Third Deck, amidships, Angle, [ or ]	-	/
" " Flat Plate Keel Angles	-	/	Spacing	-	/
Side Keelsons, No. each side	-	/	Fourth Deck, amidships, Angle, [ or ]	-	/
" " thickness of Inter-costal Plate	-	/	Spacing	-	/
" " Angles	-	/	Poop Deck, Angle, [ or ]	-	/
DOUBLE BOTTOM. (See Rpt. 1*)			Spacing	-	/
Solid Floors, thickness and spacing	11.5x3400	/	Bridge Deck, Angle, [ or ]	-	/
" " Are Frame and Reversed Frame joggled?	-	/	Spacing	-	/
Bracket Floors, breadth and thickness at middle line	800x10.5	/	Forecastle Deck, Angle, [ or ]	150x90x12	/
" " breadth and thickness at margin plate	600x10.5	/	Spacing	685 & 610	/

DISCLOSED  
SECTION  
No. 945

013201-013210-0123 1/3



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> .....	3 Rows (P.S. & centre line)				
" in 'tween Decks, Size and Spacing .....	( Dia. x thkn. 150x10/220x10 at Cr.				
" " " " " " .....	( 180x10/230x11 P.& S.				
" in Holds " " " " .....	( 300x14/440x16 at Cr.				
" " " " " " .....	( 310x14/460x16 P.& S.				
<b>Centre Line Bulkhead.</b> Stiffeners and Spacing .....	-		(P)		
Plating, thickness of .....	-				
<b>STRINGERS AND DECKS.</b> <b>Uppermost Continuous Deck.</b> Stringer Plate, breadth and thickness in Wells	1800 x 19		/		
" " " " in way of Bridge	-				
" Angle in Wells .....	150x150x19		/		
Thickness of Plating abreast Deck openings in way of Wells .....	19/8.5		/		
Thickness of Plating abreast Deck openings in way of Bridge.....	-				
Thickness of Plating within line of openings...	9.5		/		
If Sheathed, material and thickness.....	-				
<b>Second Deck.</b> Stringer Plate, breadth and thickness in Wells	1500 x 11		/		
Stringer Plate, breadth and thickness in way of Bridge .....	-				
Thickness of Plating abreast Deck openings in way of Wells .....	-				
Thickness of Plating abreast Deck openings in way of Bridge.....	-				
Thickness of Plating within line of openings...	-				
If Sheathed, material and thickness.....	-				
<b>Third Deck.</b> Stringer Plate, breadth and thickness.....	-				
If Plated, state thickness .....	-				
<b>Fourth Deck.</b> Stringer Plate, breadth and thickness.....	-				
If Plated, state thickness.....	-				
<b>Poop Deck.</b> Stringer Plate, breadth and thickness.....	-				
Plating, Sheathing, material and thickness ...	-				
<b>Bridge Deck.</b> Stringer Plate, breadth and thickness.....	-				
Plating, Sheathing, material and thickness ...	-				
<b>Forecastle Deck.</b> Stringer Plate, breadth and thickness.....	8		/		
Plating, Sheathing, material and thickness...	8		/		

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	Upper EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled? No	SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth. Inches. mm.	Thickness. Inches. mm.	Thickness. Inches. mm.	Thickness. Inches. mm.				Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
Flat Plate Keel.....	1400	21.5	21.5	21.5	/	D.R.	22	94 4/9	Welded	/			
„ Dblg. (if any)	-	-	-	-									
Bottom Plating, No. of Strakes .....4.....	A B C D	16.5	19.5	13 15 14.5 15.5	/	A Welded B D.R. C Welded D D.R.	-	-	22	94 4/9			
Bilge Plating, No. of Strakes .....2.....	E F	17	12	13	/	E D.R. F D.R.	22	94 4/9	Welded	/			
Side Plating, No. of Strakes .....4.....	G H I J	16.5	12	12	/	G Welded H Welded I D.R. J D.R.	-	-	-	-			
Upper Deck, Sheer- strake in Wells.....	K L	19.5	12	9.5	/	K D.R. L Welded	22	94 4/9					
Upper Deck, Sheer- strake in Bridge ...	-	-	-	-		S D.R. Angle	-	-					
Strake below Sheer- strake in Wells.....	M	16.5	12	12	/	M Welded	-	-	Welded	/			
Strake below Sheer- strake in Bridge ...	-	-	-	-									
Poop Side Plating.....	-	-	-	-									
Bridge Side Plating.....	-	-	-	-									
Forecastle Side Plating	-	-	10.5	-	/	Welded			Welded	/			

## WATERTIGHT BULKHEADS.

FORGINGS AND CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		Extending to Upper Deck (Sec. 3 c)		Deck next below		As per Rule	
7		60-79-157		1		11-33-95-107-134	
7							

	Plating Thickness.	STIFFENERS.				Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
		VERTICAL.		HORIZONTAL.					
		Scantlings.	Spacing.	Scantlings.	Spacing.				
MIDSHIP BULKH'D, Upper 'tween decks	7/6.5	125x75x7	800	-	-				
" " Second "	-	-	-	-	-				
" " Third "	-	-	-	-	-				
" " Holds Fr..107	6.5/10.5	270x125x12	F.P.800	-	-				
" " COLLISION (in Hold) Fr..157	14/8	125x75x10	640	3 Stringers					
" " AFTER PEAK Fr..11	12/7.5	180x100x11	640	1 Girder					
" " "		125x75x10	700	1 W.T. Plot					

KEEL	Bar							Plate	
STEM								Plate	
STERN FRAME	Propeller Post	C.S.	As Per Kawasaki						
	Rudder	Dwg.	Steel Corp.						
Speed of Vessel			15 1/2 knots (Max.)						
RUDDER—Type			Contro Flow						
"	A x D.		Kawasaki						
"	Diam. of head	F.S.	270mm Steel Corp.						
"	Mainpiece at top pintle	C.S.	As per						
"	" heel		Dwg.						
"	how constructed		Fabricated						
"	double or single plate coupling, vertical or horizontal		Double						
			Horizontal.						

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Open Hearth.

Yawata Iron & Steel Works; Fuji Iron & Steel Works; Hirohata; Kawasaki Steel Corporation.

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



Rpt. 1\*

M.S. "HIKAWA MARU"

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. Inches.	Rivets in Brackets to Bulkheads.	
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Diam. Ins.	Speng. Ins.		Number.	Diameter. Inches.
ming of L, L or C .....												
mes in Bridge 'tween Decks ...												
mes from Uppermost Continuous Deck												
No. 1												
" 2												
" 3												
" 4												
" 5												
" 6												
" 7												
" 8												
" 9												
" 10												
" 11												
" 12												
" 13												
" 14												
" 15												
" 16												
Spacing of Longitudinal Frames												
Amidships												
At Ends												
ble Tank Top Longitudinals	150x90x10/15.5											
Bottom	230 x 11 B.P.											
Amidships	800mm											
At ends...												
Transverses.												
Side Depth and Thickness												
Face Angles												
Lugs to Shell*												
Side Depth and Thickness												
Face Angles												
Lugs to Shell*												
Side Depth and Thickness												
Face Angles												
Lugs to Shell*												
" " Back Bars												
Brackets												
Spacing of Transverse Frames...												
* State if joggled or liners.												
itudinal	XXXXXXX											
Upper	150x90x9/13											
XXXXX	150x90x9											
XXXX												
XXXX												
Outside line of openings.												
Inside line of openings.												
800 m/m												
800 m/m												
Transverse Beams.												
Plate.												
Face Angles.												
Any departure from Approved Plans to be Noted.												
300x90x12/15.5												
Spaced 3400m												
(4 ft. spaces)												

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.

0123

2/3

DB 142 lb.







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.)

Sister Ships:— M.V. "MIZUKAWA MARU" Kobe Rpt. No.1815.

M.V. "SACHIKAWA MARU" Kobe Rpt.No.2126

The following plans are enclosed:

"As Built"

As Approved

Midship Section

Construction Profile & Decks

General Arrangement

Shell Expansion

Stern Frame

Stem

Capacity Plan

O.T. & W.T. Bulkheads

Pumping Arrangement

Rudder & Rudder Stock

Bow Construction

Stern Construction

Double Bottom

P.403 Tables.

Midship Section

Construction Profile & Decks

Forgings and Castings Certificates:

Stern Frame Castings (Upper & Lower Gudgeon)

Rudder Stock

Rudder frames (Upper and lower)

Additional Information - (Circ. No.2051)

Dimensions:— Extreme Breadth 59.95'

Rise of Floor:— 5.9"

Moulded Dimension: Length 434.38

Breadth 59.71

Depth 38.39

PARTICULARS OF ELECTRIC WELDING (if employed) Port shell seams, shell and deck butts, deck seams, beams, frames, inner bottom, I.B. and B.S. longitudinals, under deck girders.

Approved electrodes used throughout.

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., E.S.D., Radar, Gyc., Fitted for

O.F. Longitudinal framing at Bottom and Deck, pt. Elec. welded.

RADAR Equipment (State if fitted) Yes

State Type or Pattern No. Sperry Mark II, Modd O.

State } Maker  
Name } and/or  
of } Supplier Nihon Musen K.K., Tokyo.

Particulars of Drop Test of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials,  
Number of Certificate, Date  
of Test.

1st Bower	46. 0. 27	✓	T.N. Y 6285	10. 2. 55.
2nd "	45. 3. 11	✓	T.N. Y 6283	10.2. 55.
3rd "	45. 2. 17	✓	T.N. Y 6284	10. 2. 55.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop— ft., R.Q.D.— ft., Bridge— ft., Forecastle 40.3 ft.

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

Official No. 73085 Signal Letters J.H.Q.R. Extreme Breadth over Belting 59.95 ft. Over-all Length 466.09 ft.  
(Circ. 1611) (Circ. 1703)

No. and Material of Decks 2 Decks, Steel

Parts of Bottom of Vessel coated with cement or approved composition Peak Tanks cement washed; F.W. Tank in D.B. cemented.

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.
		K.Tons.		Fect.	K.Tons.
Double bottom, aft, <u>O.F.</u>	<u>75.30</u>	—	Fore peak tank,		<u>145.54</u>
<del>Double bottom, under Engines and Boilers</del>	—	—	After peak tank, <u>(Lower)</u>		<u>47.08</u>
Double bottom, if under Engines only, <u>pt.O.F.pt.F.W.</u>	<u>52.99</u>	—	Deep tank, aft,		
<del>Double bottom, if under Boilers only</del>	—	—	Deep tank, forward,		
Double bottom, forward, <u>pt. O.F.</u>	<u>201.04</u>	<u>420.32</u>	Other tanks, if fitted, <u>Wing Tunnel Tanks</u>	<u>41.83</u>	<u>335.66</u>
Total length (if continuous) and Capacity	<u>329.33</u>	<u>420.32</u>	(If necessary furnish further information by sketch.)		

Order for Special Survey No.

Date

Dates of Surveys held while building

R.I.: 1955 March, 16,18,29, April, 8,9,19,20

K.U.: 1954 Dec.,24, 1955 Jan., 19,29, Feb.,1,5,14,19,25,26,

March,11,17,19,22,23,24,28,29,31, April, 2,7,14,

July,2

7 V.

22 V.

Total No. of Visits 29