

Yoro Maru  
30604

Rpt. 11b.

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.—STEAM SHIPS.

Ap. No 3188

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey KOBE  
Date of Survey 15<sup>th</sup> Feb. 1921.  
Name of Surveyor S. James Preston.

B.T. COPY WRITTEN  
Yoro Maru Hull No. 43.

Ship's Name <u>SIN-AI MARU</u>	Port of Registry and Nationality. <u>SHIMONOMIYA JAPANESE</u>	Official Number. <u>27478</u>	Gross Tonnage. <u>3793.57.</u>	Date of Build. <u>1921.</u>	Particulars of Classification. <u>* 100.A.I. CONTEMPLATED.</u>
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Registered dimensions from Ship's Register.	LENGTH. <u>345.00</u>	BREADTH. <u>50.00</u>	DEPTH. <u>26.70</u>	UNDER DECK TONNAGE. <u>3441.92</u>
Length on LOADLINE.	<u>345.00</u>	Rule <u>50-2</u> <u>10</u> <u>6</u> <u>4</u>	Ceiling +20 Sheer +42.5 5" Drop in TANK +20	Peak Tanks } included.
CORRECTED DIMENSIONS.	<u>345.00</u>	<u>49.34</u>	<u>27.525</u>	<u>3441.92</u>

Moulded Depth as measured..... 29.1"  
Addition for Keel below base line for draught record..... .92 inches.

NOTE.— If the depth is measured when vessel is afloat, the details of measurement should be reported.

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<u>345</u>
Length in Table .....	<u>349</u>
Difference .....	<u>4</u>
Correction for 10ft., Table A. ....	<u>1.5</u>
× Difference divided by 10 .....	<u>0.6</u>
If 1/10ths length covered divide by 2	<u>-1/2</u>
Table C. ....	<u>.72</u>
(if required.)	<u>.29</u>
	<u>-1/4</u>

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered .....	<u>.4378</u>
Thickness of usual wood deck, less stringer .....	<u>3 1/2 × .4378 = 1 1/2</u>

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<u>48.00</u>
Round of Beam .....	<u>12 1/2</u>
Normal round.....	<u>12</u>
Difference .....	<u>1/2</u>
÷ 2 =	<u>1/4</u>
Proportion of Deck uncovered (Para. 19) .....	<u>56%</u>
	<u>.14</u>
	<u>-1/4</u>

NOTE.— The round of beam should be reported on the full breadth of vessel at the gunwale.

Co-efficient of fineness..... .763  
Any modification necessary [Para. 4 (a) to (e)]\* -.02 C.O.B.  
Co-efficient as corrected ..... .741

Sheer at Stem..... 83 3/4  
Sternpost..... 41 3/4  
 $125 1/2 ÷ 2 = 62 3/4$  Mean 36/1678  
Sheer at 1/2 of the length from Stem..... 45 3/4  
Sternpost..... 21  
 $66 3/4 ÷ 2 = 33 3/8$  Mean 45  
Actual mean Sheer..... 60.50  
Standard mean Sheer [Table, Para. 18]..... 44.50  
Difference..... 16.00  
 $16.00 ÷ 4 = 4.04$   
If limited as Para. 18 (f)..... -4"

Fall in Sheer from amidships  
At front of bridge house..... ✓  
At after end of forecastle..... ✓

Fall in Sheer at Para. 18 (d)  $÷ 2 =$  ✓  
Length uncovered..... Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....	<u>3'-10 1/8"</u>
Correction for Length, if required (Para. 12, 13, and 14) .....	<u>3'-10 1/8"</u>
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) .....	<u>6'-8 3/8"</u>
Difference .....	<u>2'-9 3/4"</u>
Percentage as below.....	<u>27.26%</u>

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) -9 1/4"  
Allowance for Deck Erections.....

Castle.....	Length <u>40.52</u>	Length allowed <u>40.45</u>	Height
Bridge House.....	<u>77.4</u>	<u>77.33</u>	
Raised Qr. Dk.....	<u>33.32</u>	<u>33.29</u>	
Total.....	<u>151.07</u>	<u>151.07</u>	
Length of Ship.....	<u>345.00</u>		<u>.4378</u>
Corresponding percentage (Para. 11, 12, 13, or 14).....	<u>27.26%</u>		

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, (Iron) Deck:—

Fresh Water Line above centre of Disc	<u>5'-4 1/2"</u>
Indian Summer Line " " "	<u>6"</u>
Winter Line below " " "	<u>5 1/2"</u>
Winter North Atlantic Line " " "	<u>5"</u>

Freeboard, Table A.....	<u>7'-0 7/8"</u>
Correction for Sheer.....	<u>-4"</u>
Correction for Length.....	<u>6'-8 3/8"</u>
Allowance for Deck Erections.....	<u>6'-8 3/8"</u>
Correction for Round of Beam.....	<u>5'-11 3/8"</u>
Correction for fall in Sheer (if any).....	<u>5'-10 3/8"</u>
Correction for Iron Deck (if required).....	<u>5'-9 3/8"</u>
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	<u>8"</u>
Other Corrections (if any).....	

Winter Freeboard.....	<u>5'-9 3/8"</u>
Summer Freeboard.....	<u>5'-4 1/8"</u>
Indian Summer Freeboard.....	<u>4'-10 3/8"</u>
N.A. Winter Freeboard.....	
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the iron deck with side.	<u>+ 1 3/4"</u>

Winter Freeboard from deck line.....	<u>5'-11 3/8"</u>
Summer " " " ".....	<u>5'-6 3/8"</u>
Indian Summer " " " ".....	<u>5'-4 3/8"</u>
N.A. Winter " " " ".....	<u>5'-4 1/2"</u>

† If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.  
\* The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draught at the survey, and also the usual load draft forward and aft should be reported.

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Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck?  Bridge House? *Yes* Forecastle? *Yes*  
 To what height do the Reverse Frames extend? *Channel frames.*  
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes*  
 Give particulars of the means for closing the openings in Bulkhead *Steel Hinged Watertight doors.*  
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *no* Has the Bridge House an efficient Bulkhead at the fore end? *Yes*  
 Give particulars of the means for closing the openings in Bulkhead *Steel Hinged Watertight doors*  
 What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *.44*  
 Give scantlings and spacing of the Stiffeners *9" x 3 1/2" x .48 B.A. SPACED 30" APART.*  
 Are bracket plates fitted at each end of the Stiffeners? *Yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *Yes*  
 Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes*  
 How are the openings closed? *Storm Boards in Channels.*  
 Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient ~~Iron or Wood~~ <sup>STEEL</sup> Bulk'd. at after end? *Yes*  
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Enclosed in Bridge Houses.*  
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed?   
 Give thickness of plating; scantlings and spacing of Stiffeners   
 What is the height of the exposed Casings?  Are suitable means provided for closing all openings in them in bad weather? *Yes*  
 Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— *Yes*

Position and Size.		No 1 HATCH 27'-6" x 18'-0"		No 2 33'-0" x 18'-0"		No 3 30'-3" x 18'-0"		No 4 27'-6" x 18'-0"		Ship.	Rule.
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	24"	24"	24"	24"	24"	24"	24"	24"		
	Thickness	Sides.....	.44	.44	.44	.44	.44	.44	.44		
		Ends.....	.44	.44	.44	.44	.44	.44	.44		
SHIFTING BEAMS OR WEB PLATES.	Number.....	5	5	7	7	6	6	5	5		
	Section and Scantlings.....	15" x .36	15" x .36	15" x .36	15" x .36	15" x .36	15" x .36	15" x .36	15" x .36		
	Material.....	Steel 3 1/2" x 3 1/2" x 7/16"	4 x 3 x .44	3 1/2" x 3 1/2" x 7/16"	4 x 3 x .44	3 1/2" x 3 1/2" x 7/16"	4 x 3 x .44	3 1/2" x 3 1/2" x 7/16"	4 x 3 x .44		
* FORE AND AFTERS.	Number.....										
	Section and Scantlings.....										
	Material.....										
HATCHES Thickness		3"	3"	3"	3"	3"	3"	3"	3"		
	Remarks.....	Good		Good		Good		Good.			

\* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.  
 (If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

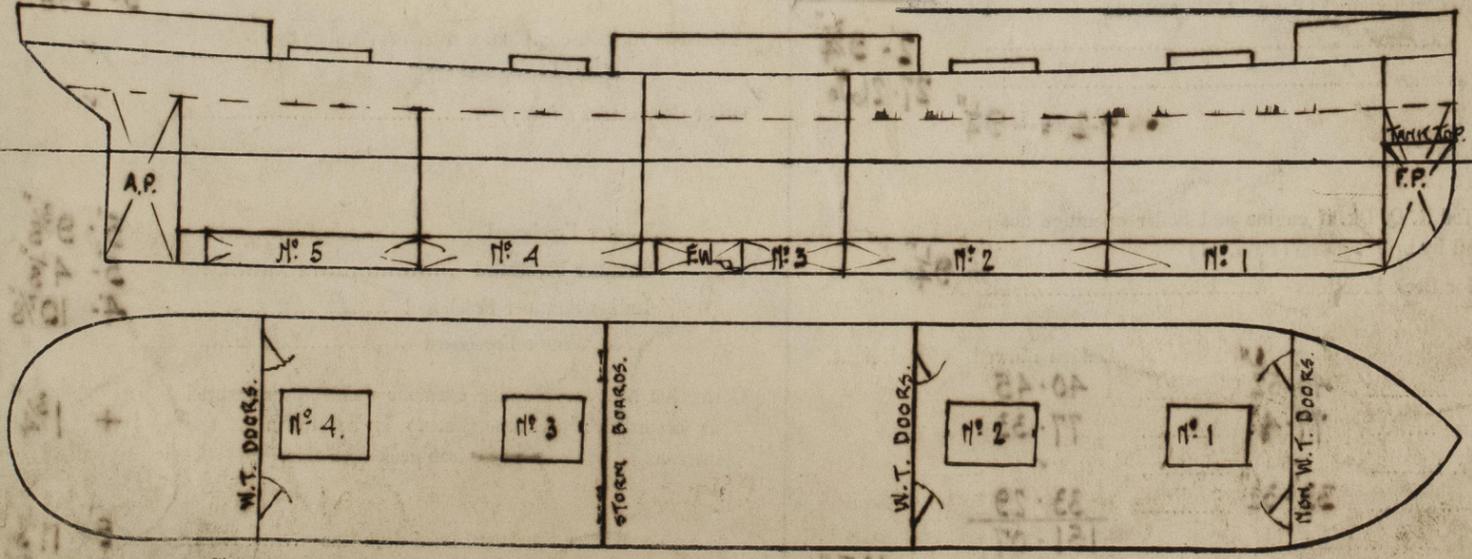
What is the thickness of the Bridge Sheerstrake? *.40* Strake between Main and Bridge Sheerstrakes? *.40*

Delete the words *The Crew are not, berthed in the bridge house.*  
 that do not apply *The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.*

Length of Bulwarks in well \_\_\_\_\_ Sq. ft.  
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = \_\_\_\_\_ Sq. ft.  

Ft. Tenth.	Ft. Tenth.	No.	} Freeing Ports (each side of vessel) = _____ Sq. ft.
x	x	x	
x	x	x	

 Total deficiency or excess = \_\_\_\_\_ Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel *The Freeboard as recommended has been marked on the Vessel. Copy of Provisional Certificate is attached.*

Owners *Kishimoto Kisen Kaishiki Kaisha*  
 Address *Osaka*

Fee *150*

Received by me

