

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

Rpt. No. 3069

Mitsubishi Kobe Hull No 85

Port of Survey **KOBE**
Date of Survey **DECEMBER 10th 1920.**
Name of Surveyor **S. James Preston**

Ship's Name	Port of Registry and Nationality	Official Number	Gross Tonnage	Date of Build	Particulars of Classification
"MACASSAR MARU"	KOBE JAPANESE		3981.28	1920.	100.A.I. (contemplated)

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	345.00	50.00	26.71	3475.91
Length on LOADLINE.	344.30	Frame Depth 10 Rule " 6 4 66	Ceiling fitted Sheer .34 4" drop in Junk Top 4.16	Peak Tanks } included
CORRECTED DIMENSIONS.	344.30	49.34	27.21	3475.91

Moulded Depth as measured..... 29'-1"
Addition for Keel below base line for draught record... 1'-6 1/2" 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.....	344.3
Length in Table	349.0
Difference	4.7
Correction for 10ft., Table A.	1.5
× Difference divided by 10705
If 1/10ths length covered divide by 2	- 3/4
Table C.7
(if required.)	.329
	- 1/4

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered: $.427 \times \frac{1}{2} = \frac{1}{4}$

Thickness of usual wood deck, less stringer: $\text{Wood deck 3" Rule 32} = -\frac{1}{4}$

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	48'-0"
Round of Beam	12"
Normal round.....	12"
Difference	✓ ÷ 2 = ✓
Proportion of Deck uncovered (Para. 19)	✓

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

Co-efficient of fineness..... .75
Any modification necessary }
[Para. 4 (a) to (e)]* }
Co-efficient as corrected73

Sheer { Stem..... 83 }
at { Sternpost ... 41 }
 $124 \div 2 = 62$... Mean $\frac{36}{12.38}$

Sheer at 1/2 of the length from { Stem 42.5 }
{ Sternpost 20.0 }
 $62.5 \div 2 = 31.25$ Mean
 $\div .55 = 56.81$

Gradual mean Sheer 56.81
Standard mean Sheer [Table, Para. 18] 44.43
Difference..... 12.38 ÷ 4 = -3'

If limited as Para. 18 (f)

Rise in Sheer { At front of bridge house..... ✓ }
from amidships { At after end of forecastle ✓ }
[Para. 18 (e)]

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

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....	3'-10 3/4"
Correction for Length, if required (Para. 12, 13, and 14)	3'-10 1/2"
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }	6'-8 1/2"
Difference	2'-10"
Percentage as below.....	26.89%

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) 9'-14"
Allowance for Deck Erections - 9 1/2"

	Length.	Length allowed.	Height.
Forecastle.....	40	40	
Bridge House	74	74	7'-7 1/2"
Raised Qr. Dk.....	✓		
Opp.....	33	33	
Total		147.0	
Length of Ship	344.3		427

Corresponding percentage (Para. 11, 12, 13, or 14) } 26.89%

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood Deck:—

Fresh Water Line	above centre of Disc
Indian Summer Line	" " "
Winter Line	below " " "
Winter North Atlantic Line	" " "

22-3-21

Freeboard, Table A	7'-0 1/4"
Correction for Sheer	- 3"
Correction for Length	6'-9 1/4"
Allowance for Deck Erections	6'-8 1/2"
Correction for Round of Beam.....	- 9 1/4"
Correction for fall in Sheer (if any).....	✓
Correction for Iron Deck (if required)	- 1/4"
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	5'-11"
Other Corrections (if any)	✓

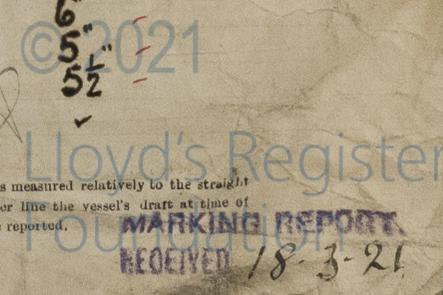
Winter Freeboard	5'-11"
Summer Freeboard	5'-5 3/4"
Indian Summer Freeboard	5'-0 1/2"
N. A. Winter Freeboard	✓

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood on deck with side. + 1 3/4"

Winter Freeboard from deck line	6'-0 3/4"
Summer " " " "	5'-7 1/2"
Indian Summer " " " "	5'-2 1/4"
N. A. Winter " " " "	✓
Wood Deck	5'-7 1/2"

† If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.
‡ In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.
§ In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and stern-post. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern-post.

† State dimensions of freeing port area on back of this form.
‡ 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 draft at time of survey, and also the usual load draft forward and aft, should be reported.



Do all the Frames extend to the top height in the Poop? Yes Raised Quarter Deck? ✓ Bridge House? Yes Forecastle? alternately 2nd ex. 3rd
 To what height do the Reverse Frames extend? upper deck in way of after Peak.
 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 W.T. 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 Hinged Steel W.T. 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? Stain Boards in Channels for Half height of Interm deck.
 Is the Forecastle at least as high as the main or top-gallant rail? Yes Has the Forecastle an efficient ~~Iron or Wood~~ Steel 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?~~ Yes
 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? ✓
 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 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	34"	24"	← Same as No. 1.		→				
	Thickness	Sides.....	.44	.44	← Same as No. 1.		→			
		Ends.....	.44	.44	← Same as No. 1.		→			
WEATHER DECK WEB PLATES.	Number	5	7	6	5					
	Section and Scantlings	PLATE .36" x 15"	.34	.34	.36					
	Material	4" x 3" x 337 Double Angles Steel	← Same as No. 1		→					
* FORE AND AFTERS.	Number									
	Section and Scantlings	none	none	none	none.					
	Material									
HATCHES Thickness	Solid 3"	2 1/2"	← Same as No. 1		→					
Remarks.....	Good.									

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

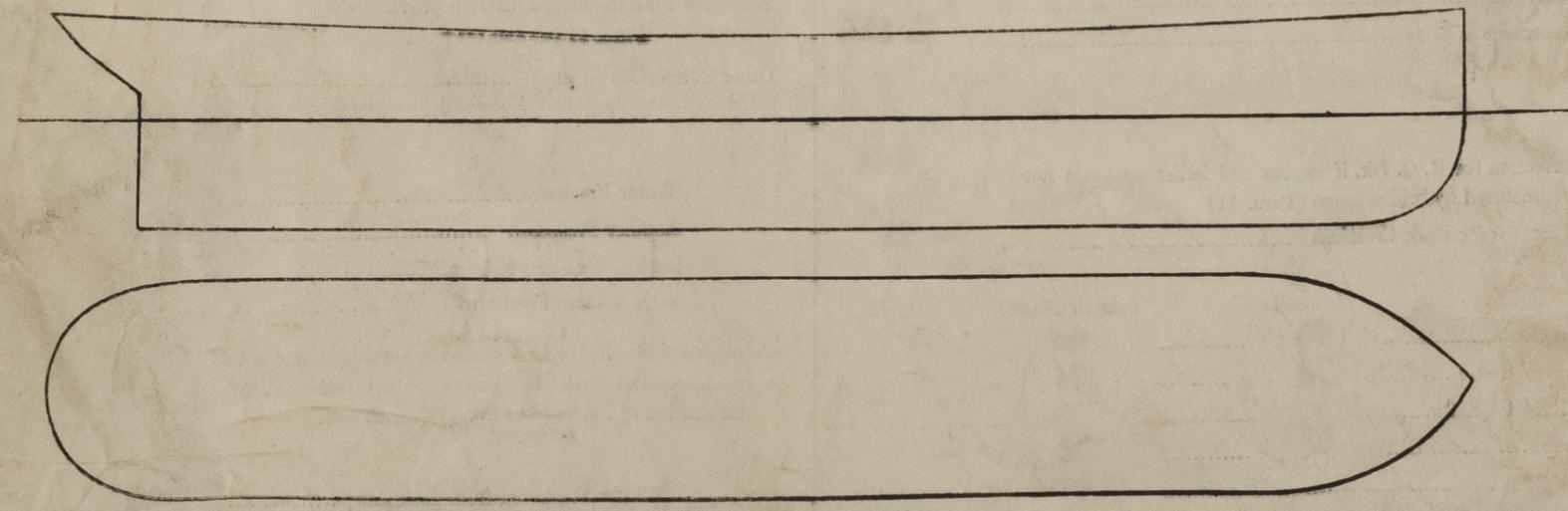
(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

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? _____ Strake between Main and Bridge Sheerstrakes? _____

Delete the words } The Crew are, 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 _____
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = _____ Sq. ft.
 Ft. Tenths. Ft. Tenths. No. }
 × × } Freeing Ports = _____ Sq. ft.
 (each side of vessel)
 × × }
 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
Sister Vessels. "AKITA MARU" "YAMAGATA MARU" & "MABERASU MARU" NAGASAKI MITSUBISHI HULL N^{os} 252, 253 & 285. "SAMARANG MARU" KOBE REPORT N^o 2834.

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