

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.—STEAM SHIPS.

Rpt. No. 2916

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

Port of Survey Osaka  
Date of Survey May 1920  
Name of Surveyor S. James Preston

Osaka Ironworks Hull No. 944  
TAIBUN MARU  
Ship's Name  
(x) "ETNA MARU"  
Number in Register Book

Port of Registry and Nationality  
OSAKA  
JAPANESE

Official Number

Gross Tonnage 7144.48  
Date of Build 1920

Particulars of Classification  
\*100A.1. Shelter deck with Freeboard.

317

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
Length on	<u>415.00</u>	<u>55.70</u>	<u>32.125</u>	<u>6111.47</u>
		Frame Depth 7	Ceiling + <u>2.20</u>	Peak <u>Included</u>
		Rule <u>7.8</u>	Sheer + <u>0.85</u>	Tanks
			<u>-76.33</u>	
	<u>415</u>	<u>55.34</u>	<u>33.305</u>	<u>6111.47</u>

Moulded Depth as measured 34' 8" to Shelter deck  
Addition for Keel below base line for draught record 1.60 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>415</u>
Length in Table .....	<u>416</u>
Difference .....	<u>-1</u>
Correction for 10ft., Table A. ....	<u>1.7</u>
Table C. ....	<u>.8</u>
× Difference divided by 10 .....	<u>1.7.17</u> (if required.) <u>.08</u>
If 1/10ths length covered divide by 2 .....	<u>-1/4</u> ✓

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered .....	<u>.542</u>
Thickness of usual wood deck, less stringer .....	<u>3 1/2" - 2"</u>

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<u>54</u>
Round of Beam .....	<u>13 1/2</u>
Normal round.....	<u>13 1/2</u>
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.

nt of fineness..... .80  
 ification necessary } -.02 C.D.B.  
 4 (a) to (e)]\*  
 nt as corrected..... .80.78 (see 80 norm)  
 (Risks Vessels)

tem..... 116  
 sternpost 52 } 168 ÷ 2 = 84 ...Mean

of the length from { Stem 63  
 Sternpost 28 1/2 } 91.5 ÷ 2 = 45.75 ...Mean

mean Sheer..... 83.5 } ÷ .55  
 = 83.2  
 mean Sheer [Table, Para. 18]..... 51.5 Correction  
 Difference..... 32.5 ÷ 4 = -8 ✓  
 ad as Para. 18 (f)..... 31.7

Sheer { At front of bridge house.....  
 At after end of forecastle..... ✓

Sheer { (d) } ÷ 2 = ✓  
 covered..... ✓  
 Correction

ALLOWANCE FOR DECK ERECTIONS:—

Table C..... 6' 4 1/4 ✓  
 or Length, if required (Para. 12, 13, and 14)..... Nil

by Table A. corrected for sheer, and for length, if required (Para. 12, 13, and 14) } 8' 11 1/2  
 }  
 below..... 2' 6 3/4 ✓  
35.6%  
- 11" 3/8

R. Q. Dk. if engine and boiler openings not by bridge house (Para. 11) } 10 3/4  
 }  
 Deck Erections..... - 11"

Length.	Length allowed.	Height.
<u>45' 3"</u> <u>Clear</u> .....	<u>45.25</u> ✓	<u>7.75</u>
<u>148' 0"</u> .....	<u>148.00</u> ✓	<u>7.75</u>
Dk.....		<u>7.75</u>
<u>31' 9"</u> .....	<u>31.75</u> ✓	
	<u>225.00</u> ✓	
	<u>415.00 = .542</u> ✓	

Length of Ship..... .36  
 Corresponding percentage (Para. 11, 12, 13, or 14) } 35.6%

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, W ✓

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

1. 10. 20.

Freeboard, Table A .....	<u>9' 7 3/4</u> ✓
Correction for Sheer .....	<u>- 8</u>
	<u>8' 11 3/4</u> ✓
Correction for Length .....	<u>- 1/4</u>
	<u>8' 11 1/2</u> ✓
Allowance for Deck Erections .....	<u>11' 10 3/4</u>
	<u>8' 0 1/2</u> ✓
Correction for Round of Beam.....	.....
Correction for fall in Sheer (if any).....	.....
Correction for Iron Deck (if required) .....	<u>- 2</u>
	<u>7' 10 1/2</u> ✓
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	.....
Other Corrections (if any) .....	.....
Winter Freeboard .....	<u>7' 10 3/4</u>
Summer Freeboard.....	<u>6 1/4</u>
Indian Summer Freeboard .....	<u>6' 10 1/4</u> ✓
N. A. Winter Freeboard .....	.....

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

Winter Freeboard from deck line .....	<u>8' 0 1/2</u> ✓
Summer " " " .....	<u>7' 6 1/4</u> ✓
Indian Summer " " " .....	<u>7' 0</u> ✓
N. A. Winter " " " .....	.....
Shelter Deck (Iron) Deck:— .....	<u>7' 6"</u> ✓
	<u>7"</u> ✓
	<u>6"</u> ✓
	<u>6 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.  
 ‡ 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 sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one eighth of the vessel's length from stem and sternpost.

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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? *Yes*  
 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 *Hinged Steel 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 *Hinged Steel Watertight doors*  
 What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *.44*  
 Give scantlings and spacing of the Stiffeners *10" x 375 x 3375 x 4375 Channels spaced 3'-0" at Centre + 3'-5 1/2" at Sides*  
 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? *Hinged Steel doors*  
 Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *Steel*  
 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 deck 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:—

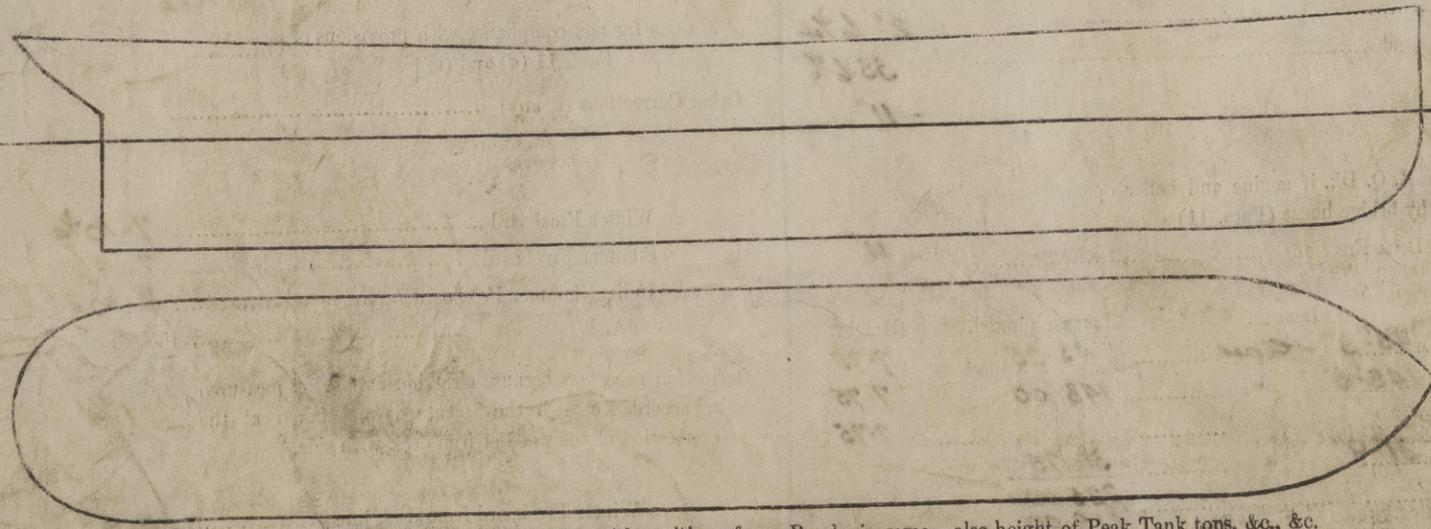
Position and Size.	<i>Yes</i>				ON BRIDGE DECK				ON BRIDGE DECK			
	11' 1-6, 24'-0" x 18'-0"		2' 5, 36'-0" x 18'-0"		3'-24" x 18'-0"		4'-11'-0" x 18'-0"		Ship.	Rule.	Ship.	Rule.
COAMING	Height above top of DECK	30"	30"	30"	30"	30"	30"	30"	30"			
	Thickness	Sides .44	.44	.44	.44	.44	.44	.44	.44			
SHEFTING BEAMS OR WEB PLATES	Number	3	3	5	5	3	3	1	1			
	Section and Scantlings	18" x .36	18" x .36	18" x .36	18" x .36	18" x .36	18" x .36	17" x .36	17" x .36			
FORE AND AFTERS	Material	2" 6" x 3" x .44	4" x 3" x .44	6" x 3" x .44	4" x 3" x .44	4" x 3" x .44	4" x 3" x .44	5" x 3" x .44	4" x 3" x .44			
	Material	2" 4" x 3" x .44		4" x 3" x .44		4" x 3" x .44		4" x 3" x .44				
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? *.62* Strake between Main and Bridge Sheerstrakes? *.60*

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

Length of Bulwarks in well *Fore Well 96'-0" after Well 94'-0"*  
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = ~~39'-0"~~ Sq. ft.  
 Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = 41.6 Sq. ft.  
 3. 3 x 1. 58 x 4  
 3. 3 x 1. 58 x 4  
 Total deficiency or excess = ~~2.6~~ 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 recommended and marked on the Vessel is the same as assigned to the Sister Vessels, "Eastern Light" Kobe report N° 2402. - "Eastern Knight" Kobe report N° 2672, etc.*

*Freeboard Verification form is forwarded. -*  
 Owners *Kokusai Kisen Kabushika Kaisha.*  
 Address *Kobe, Japan.*

Fee *Yen 160.-* Received by me

