

Ural Santhoro
Kashu Maru
28835
28426

Rpt. 11b.

Index No. 29043
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAM SHIPS.

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 **YOKOHAMA**
Date of Survey **WHILE BUILDING**
Name of Surveyor **James Brighton**

Ship's Name **"ERIE MARU"**
ASAHO S.B. Co. No. 21
Number in Register Book
Port of Registry and Nationality **YOKOHAMA JAPANESE**
Official Number **22078**
Gross Tonnage **5467.40**
Date of Build **1920**
Particulars of Classification **+100 A.I. CONTEMPLATED.**

Registered dimensions from China Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	400	53.2	29.42	4995.69
on line.	400	Frame Depth 10 Rule " 6	Ceiling FITTED Sheer +83	Peak } INCL. Tanks }
		2x4 - .66	3 DROP IN TANK +12	
CTED STONS.	400	52.54	30.37	4995.69

Efficient of fineness..... **.78**
Modification necessary {
Para. 4 (a) to (e)]* **C.D.B.**
Efficient as corrected **.76**

Stem..... **111**
Sternpost... **49**
Mean **80**
Mean **83**
at $\frac{1}{2}$ of the length from { Stem **61**
Sternpost **27** } **88** $\div 2 = \frac{44}{55}$ Mean **80**
Normal mean Sheer **80**
Hard mean Sheer [Table, Para. 18] **50**
Difference..... **30** $\div 4 = -7\frac{1}{2}$
Limited as Para. 18 (f)

In Sheer { At front of bridge house.....
amidships {
Para. 18 (e)] { At after end of forecastle

In Sheer {
Para. 18 (d)] { **2** $\div 2 = 1$
Uncovered **No** Correction
BRIDGE FITTED.

ALLOWANCE FOR DECK ERECTIONS :—
Board, Table C..... **5' 2 1/2"**
Correction for Length, if required (Para. 12, 13, and 14) **+1/4"**
Board by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }
Difference **2' 7 1/4"**
Age as below..... **31.51**

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }
Allowance for Deck Erections **10'**

	Length.	Length allowed.	Height.
House.....	41	41.00	7.9
House.....	123.9	123.75	7.9
Qr. Dk.....	32.6	32.50	7.9
Total.....		197.25	
of Ship.....		400	493
Adding percentage { 11, 12, 13, or 14 }		31.51	

BOARD recommended amidships from centre of Disc to top of Statutory Deck Line, **Wood** (Iron) Deck :—
Fresh Water Line above centre of Disc
Indian Summer Line " " "
Winter Line below " " "
Winter North Atlantic Line " " "

Moulded Depth as measured..... **32' 0"**
Addition for Keel below base line for draught record..... **2.04** 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..... **400**
Length in Table..... **384**
Difference **16**
Correction for 10ft., Table A. **1.6** Table C. **.8**
 \times Difference divided by 10 **2.56** (if required.) **1.28**
If $\frac{1}{10}$ ths length covered divide by 2 **+2 1/2** **+1 1/4**

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered **.493**
Thickness of usual wood deck, less stringer **3 1/2"**
-1 3/4"

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... **51.6**
Round of Beam..... **13 1/4**
Normal round..... **13 1/4**
Difference $\div 2 =$
Proportion of Deck uncovered (Para. 19)

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

Freeboard, Table A **8.4**
Correction for Sheer **-7 1/2**
7.8 1/2
Correction for Length **+2 1/2**
7.11
Allowance for Deck Erections **-10**
7.1
Correction for Round of Beam.....
Correction for fall in Sheer (if any).....
Correction for Iron Deck (if required) **1 3/4**
6.11 1/4
Additions for non-compliance with provisions of Para. 11 (d) and (e) † }
Other Corrections (if any)

Winter Freeboard..... **6-11 1/4**
Summer Freeboard **5 3/4**
6-5 1/2
Indian Summer Freeboard **5-11 3/4**
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 **7.1**
Summer " " " **6-7 1/4**
Indian Summer " " " **6-1 1/2**
N. A. Winter " " "

Winter Freeboard from deck line **6-7**
6 1/2
5 1/2
6

* 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.

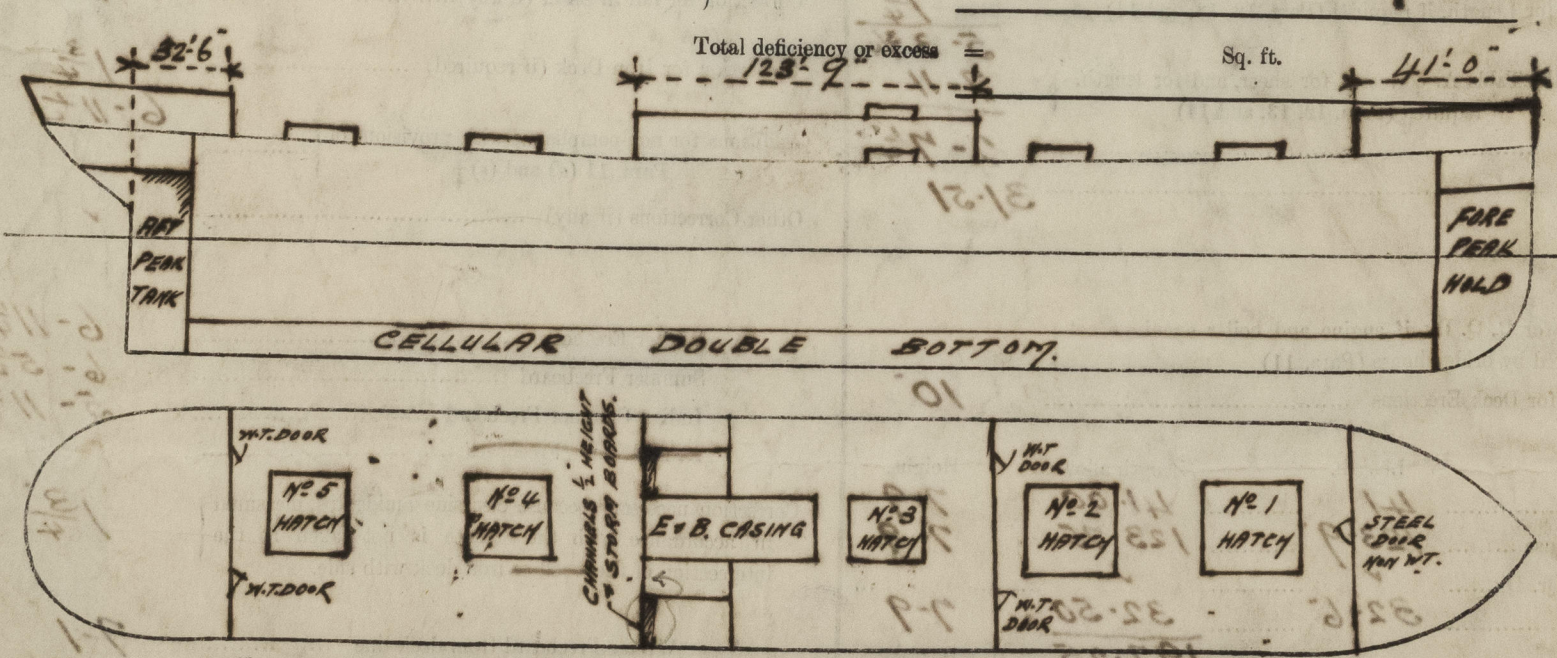
Do all the Frames extend to the top height in the Poop? **YES** Raised Quarter Deck? **✓** Bridge House? **YES** Forecastle? **YES**
 To what height do the Reverse Frames extend? **NO REVERSE FRAMES.**
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? **YES.**
 Give particulars of the means for closing the openings in Bulkhead **TWO HT. STEEL 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 **TWO HT. STEEL 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 1 7/32 BULB ANGLE 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? **CHANNELS FITTED HALF-HEIGHT.**
 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? **YES**
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? **COVERED BY BRIDGE**
 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.	N ^o 1. 27' x 18'		N ^o 2. 30'3" x 18'		N ^o 3. 13'9" x 17'8"		N ^o 4. 30'3" x 18'0"		N ^o 5. 27'0" x 18'0"	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Height above top of DECK	24"	0°	24"	24"	18"	D°	24"	24"	24"	D°
COAMING Thickness	Sides	.44	.5	.44	.44	.44	.5	.44	.44	.44
	Ends	.44	.44	.44	.44	.44	.44	.44	.44	.44
SHIFTING BEAMS OR WEB PLATES.	Number	5	6	2	6	5	5	5	5	5
	Section and Scantlings	15" x 36 PLATE	15" x 34 PLATE	12" x 3 PLATE	15" x 34 PLATE	15" x 36 PLATE	15" x 34 PLATE	15" x 36 PLATE	15" x 36 PLATE	15" x 36 PLATE
	Material	4 ANGLES 4 x 3 x .44	4 ANGLES 4 x 3 x .44	4 ANGLES 4 x 3 x .44	4 ANGLES 4 x 3 x .44	4 ANGLES 4 x 3 x .44	4 ANGLES 4 x 3 x .44	4 ANGLES 4 x 3 x .44	4 ANGLES 4 x 3 x .44	4 ANGLES 4 x 3 x .44
FORE AND AFTERS.	Number									
	Section and Scantlings									
	Material									
HATCHES Thickness	2 1/2"		2 1/2"		2 1/2"		2 1/2"		2 1/2"	
Remarks	7 x 3 1/2 x 3/8 BULB ANGLE FITTED AT SIDES & ENDS OF N ^o 1, 2, 4 & 5 HATCHES.									

* 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 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
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = **125.9** Sq. ft.
 Ft. Tenth. Ft. Tenth. No. } Freeing Ports (each side of vessel) = **125.9** 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.

Owners **KOKUSAI KISEN KAISHA**
 Address **KOBE**

Fee **YEN 150.** Received by me **3-5-20**