

Lloyd's Register of Shipping.

WED. 25 FEB. 1920

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 *Nagasaki*
Date of Survey *29th Nov. 19*
Name of Surveyor *R. Crawford*

Mitsubishi No 329

Ship's Name. <i>S.S. Susan Maru</i>	Port of Registry and Nationality. <i>Yokio Japanese</i>	Official Number.	Gross Tonnage. <i>4163.85</i>	Date of Build. <i>1919</i>	Particulars of Classification. <i>+100 A-1 Shelter deck with freeboard contemplated.</i>
Number in Register Book					

Registered dimensions from Ship's Register.	LENGTH. <i>420</i>	BREADTH. <i>56.23</i>	DEPTH. <i>35.92</i>	UNDER DECK TONNAGE. <i>6,700.22</i>
on SE.	<i>419.5</i>	Frame Depth Rule <i>10</i>	Ceiling Sheer <i>fitted +50</i>	Peak Tanks
MEASUREMENTS.	<i>419.5</i>	<i>55.43</i>	<i>36.50</i>	<i>6,700.22</i>

Moulded Depth as measured..... *38'-7"*
wood deck less str. 3 1/2"
 Addition for Keel below base line for draught record..... *1 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.....	<i>419.5</i>
Length in Table	458.5 <i>459.5</i>
Difference	<i>39.0</i> <i>40</i>
Correction for 10ft., Table A.	<i>1.4</i> Table C.
× Difference divided by 10	<i>6.8</i> <i>6.6</i> (if required.)
If 1/10ths length covered divide by 2	<i>6 3/4</i> <i>6 1/2</i>

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered *Allowed in reduced old depth.*

Thickness of usual wood deck, less stringer

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<i>54</i>
Round of Beam	<i>14 at 56</i>
Normal round.....	<i>13 1/2</i>
Difference	<i>1/2 ÷ 2 =</i>
Proportion of Deck uncovered (Para. 19)	<i>1/4 - 1/4</i>

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

Efficient of fineness..... *.485*
 Modification necessary }
 Para. 4 (a) to (e)* } *b.d.B.*
 Efficient as corrected *.765* *.74*

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

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

Stem..... *106 1/2* } *150 ÷ 2 = 45* ...Mean
 Sternpost ... *43 1/2* }

at 1/3 of the length from {
 Stem *55 1/2* } *44 ÷ 2 = 38 1/2* ...Mean
 Sternpost *21 1/2* } *55 = 70*

Actual mean Sheer *40.00*
 Standard mean Sheer [Table, Para. 18] *51.95* - Correction
 Difference..... *18.05 ÷ 4 = -4 3/4*

If limited as Para. 18 (f).....

ALLOWANCE FOR DECK ERECTIONS :—

Freeboard, Table C.....
 Correction for Length, if required (Para. 12, 13, and 14)

Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }
 Difference

Percentage as below.....

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

	Length.	Length allowed.	Height.
Forecastle.....	<i>48.9</i>		<i>7.5</i>
Bridge House			
† Raised Qr. Dk.....			
Poop.....			
Total			
Length of Ship			
Corresponding percentage { (Para. 11, 12, 13, or 14) }			

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

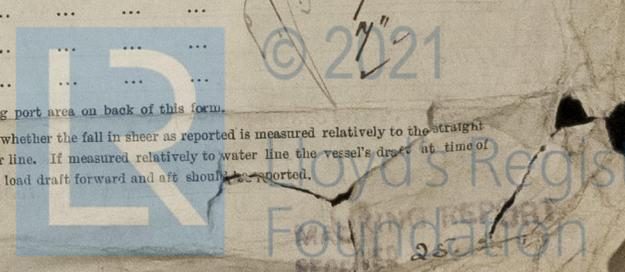
Fresh Water Line	above centre of Disc
Indian Summer Line	" " "
Winter Line	below " "
Winter North Atlantic Line	" " "

Freeboard, Table A	<i>10' - 10 3/4"</i>
Correction for Sheer	<i>- 4 3/4"</i>
Correction for Length	<i>10' - 6 3/4"</i>
Allowance for Deck Erections	<i>- 6 3/4"</i>
Correction for Round of Beam.....	<i>9' - 11 1/2"</i>
Correction for fall in Sheer (if any).....	<i>- 1/4"</i>
Correction for Iron Deck (if required)	<i>✓</i>
Additions for non-compliance with provisions of } Para. 11 (d) and (e) †	<i>2' - 8 11/16"</i>
Other Corrections (if any) } <i>Scantlings & construction</i>	
Winter Freeboard	<i>10' - 11 1/4"</i>
Summer Freeboard	<i>10' - 11 1/4"</i>
Indian Summer Freeboard	<i>9' - 9 1/4"</i>
N. A. Winter Freeboard	
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood iron deck with side.	<i>13 1/4"</i>
Winter Freeboard from deck line	<i>11' - 1"</i>
Summer " " " "	<i>10' - 6"</i>
Indian Summer " " " "	<i>9' - 11"</i>
N. A. Winter Freeboard	
Shelter Deck :—	<i>10' - 6"</i>
.....	<i>7"</i>
.....	<i>7"</i>
.....	<i>7"</i>

If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.

† State dimensions of freeing port area on back of this form.

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Do all the Frames extend to the top height in the Poop? Raised Quarter Deck? Bridge House? Forecastle? *yes*

To what height do the Reverse Frames extend? *Upper Deck*

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

Is the Poop or Raised Quarter Deck connected with the Bridge House? Has the Bridge House an efficient Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

What is the thickness of the Bridge Front plating? and Coaming plate?

Give scantlings and spacing of the Stiffeners

Are bracket plates fitted at each end of the Stiffeners? Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?

Has the Bridge House an efficient Iron Bulkhead at the after end?

How are the openings closed?

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 (Iron)*

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? *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.	N ^o 1 29'-3" x 20'-0"		N ^o 2 32'-6" x 20'-0"		N ^o 3 15'-0" x 18'-0"		N ^o 4 12'-6" x 20'-0"		N ^o 5 17'-6" x 20'-0"	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	24"	"	24"	"	24"	"	24"	"	24"
	Thickness	Sides .50 Ends .44	"	.50 .44	"	7/16" .44	"	7/16" .44	"	.50 .44
SHIFTING BEAMS OR WEB PLATES.	Number	5		6		3		3		5
	Section and Scantlings	17" x 36		17" x 36		14" x 34		15" x 36		17" x 34
	Material	Steel 4 x 4 x 50		4 x 4 x 50		4 x 4 x 50		4 x 4 x 50		4 x 4 x 50
* FORE AND AFTERS.	Number									
	Section and Scantlings									
	Material									
HATCHES Thickness	3"									
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? *.72* BELOW S.D.K SHEERSTRAKE Strake between Main and Bridge Sheerstrakes? *.72*

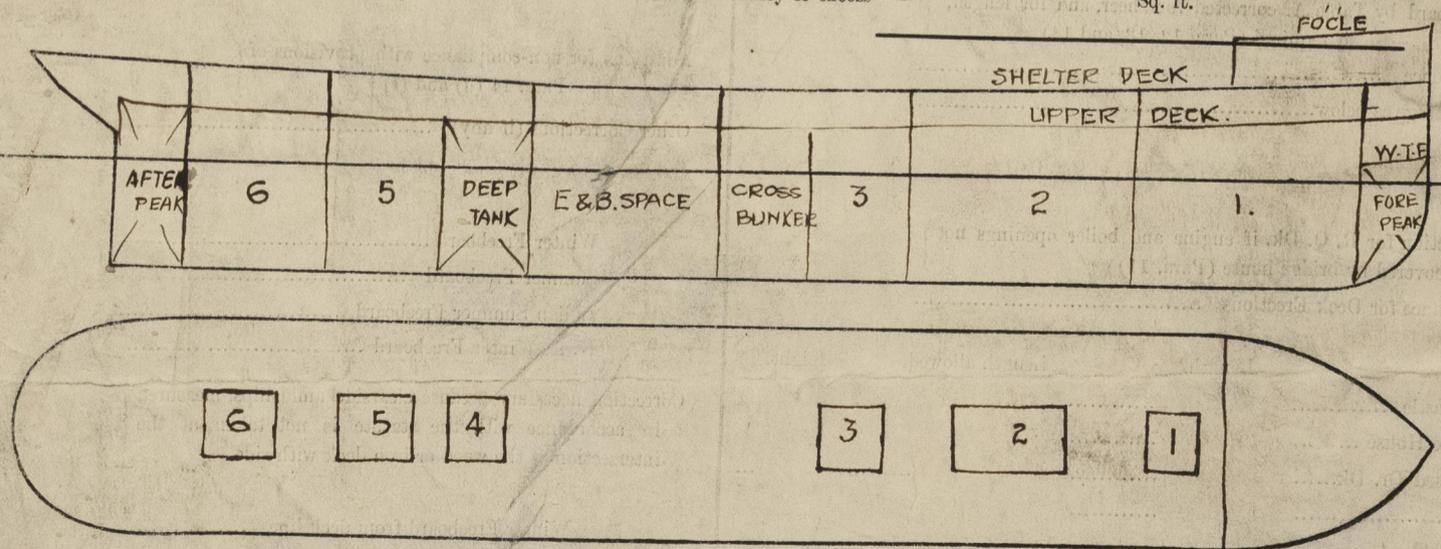
Delete the words { The Crew are, are not, berthed in the bridge house.
that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

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 (each side of vessel) = _____ Sq. ft.

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 *Vessel constructed with deep bulb angle frames & angle reverse frames. Two steel decks & beams above every frame at each deck. No scuppers or other openings thru' the ship's side to affect position of load line disc.*

Owners *Nippon Yusen Kaisha*
Address *Tokio, Japan*

Fee *Yen 160.00*

Received by me *29/12/1921*

R. Crawford

Lloyd's Register Foundation