

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD STEAM SHIPS. Rpt. No. 2964.

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 Innochima
Date of Survey While building
Name of Surveyor H. P. Howe

Ship's Name. Osaka Iron Works vessel no. 938
"HOKUSHIN MARU"
HONOLULU MARU
Number in Register Book _____
Port of Registry and Nationality. Osaka Japanese
Official Number. 26771
Gross Tonnage. 5750.95
Date of Build. 1920
Particulars of Classification. * 100 A. 1. Contemplated

Registered dimensions from	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>407.25</u>	<u>51.04</u> 51.83	<u>30.06</u>	<u>5148.55</u>
	<u>407.25</u>	Frame Depth <u>9 1/2</u> Rule " <u>6</u> <u>3 1/2 x 2 3/2</u> <u>= .58</u>	Ceiling <u>fitted</u> Sheer <u>.84</u> <u>3' drop in</u> <u>lank = .125</u>	Peak Tanks <u>Included</u>
	<u>407.25</u>	<u>50.25</u> 51.04	<u>31.02</u> 30.06	<u>5148.55</u>
ness.....	<u>.81</u>			
necessary {	<u>.02</u>	<u>C. D. B.</u>		
(e)* {				
ected	<u>.79</u>			

<u>114</u> } <u>165</u> ÷ 2 = <u>82.5</u> Mean	
<u>51</u> }	
length from { Stem <u>62</u>	
Sternpost <u>27</u> }	<u>89</u> ÷ 2 = <u>44.5</u> Mean
er	<u>80.9</u> ÷ <u>55%</u> = <u>80.9</u>
eer [Table, Para. 18]	<u>50.7</u> Correction
Difference.....	<u>30.2</u> ÷ 4 = <u>-7 1/2</u>
ra. 18 (f)	

At front of bridge house.....	✓
At after end of forecastle	✓
÷ 2 =	✓
Correction	

ALLOWANCE FOR DECK ERECTIONS :—	
.....	<u>5-6 1/4</u>
gth, if required (Para. 12, 13, and 14)	<u>1 1/4</u>
.....	<u>5-7 1/2</u>
e A. corrected for sheer, and for length, {	<u>8-4</u>
required (Para. 12, 13, and 14) }	<u>2-8 1/2</u>
.....	<u>35.76</u> 35.96

Dk. if engine and boiler openings not } ✓	
idge house (Para. 11) }	
Erections	<u>- 1 1/2</u>

Length.	Length allowed.	Height.
<u>45-9"</u>	<u>45.75</u>	<u>7-9"</u>
<u>137-3</u>	<u>137.25</u>	<u>7-9"</u>
<u>39-9"</u>	<u>39.75</u>	<u>7-9"</u>
	<u>222.75</u>	
	<u>407.25</u>	<u>= .547</u>

ntage {	
<u>35.75</u>	

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	" " "	...

Moulded Depth as measured..... 32-7"
Addition for Keel below base line Keel pl. 1.02
for draught record.....inches. 1. stroke .62

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..... 407.25 ✓
Length in Table 391.00 ✓
Difference 16.25 ✓
Correction for 10ft., Table A. 1.6 Table C. .8
× Difference divided by 10 2.6 (if required.) 1.3
If 1/10ths length covered divide by 2 + 2 1/2" ✓ + 1 1/4" ✓

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered547
Thickness of usual wood deck, less stringer 3 1/2"
- 2" ✓

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 49-0"
Round of Beam 12 3/4
Normal round..... 12 1/4
Difference 1/2 ÷ 2 = 1/4
Proportion of Deck uncovered (Para. 19)453

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

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

Winter Freeboard 7-2 1/2" ✓
Summer Freeboard 6-8 1/2" ✓
Indian Summer Freeboard 6-2 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 or iron deck with side. 1 3/4"

Winter-Freeboard from deck line 7-4 1/4" ✓
Summer " " " 6-10 1/4" ✓
Indian Summer " " " 6-4 1/4" ✓
N. A. Winter " " " ✓

6-10 1/4" ✓
6-10 1/4" ✓
6-10 1/4" ✓
6-10 1/4" ✓

† 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.

Do all the Frames extend to the top height in the Poop? *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? *Yes*
 Give particulars of the means for closing the openings in Bulkhead *Steel hinged doors*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *No*
 Give particulars of the means for closing the openings in Bulkhead *Steel hinged W. I. doors*
 What is the thickness of the Bridge Front plating? *40* and Coaming plate? *44*
 Give scantlings and spacing of the Stiffeners *8 x 3 1/2 x .64" B. A. spaced 27" and 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? *Steel hinged 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? *Yes*
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Bridge house*
 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:—

Position and Size.	No. 1 27'-0" x 20'-0"		No. 2 31'-6" x 20'-0"		No. 3 18'-0" x 18'-0"		No. 4 11'-3" x 18'-0"		Nos. 5 & 6 Same as No. 1	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.										
Height above top of DECK	36	36	Same as No. 1		Same as No. 1		10	10	Same as No. 1	
Thickness { Sides.....	50	50	Same as No. 1		Same as No. 1		10 x 3 1/2 x .50 B.A.		Same as No. 1	
Ends.....	44	40					PL. 45			
SCUTTLES OR WEB PLATES.										
Number	5	5	6	6	3	3	1	1	5	5
Section and Scantlings	16 1/2 x 3 1/2 as approved		Same as No. 1		4 x 3 x 1 1/2 15 x 3 1/2 as approved		Same as No. 3		Same as No. 1	
Material	4 x 3 x 44									
FORE AND AFTERS.										
Number										
Section and Scantlings	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Material										
HATCHES Thickness	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
Remarks.....	Hatch coamings stiffened with Channels or Ball angles									

* 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? _____

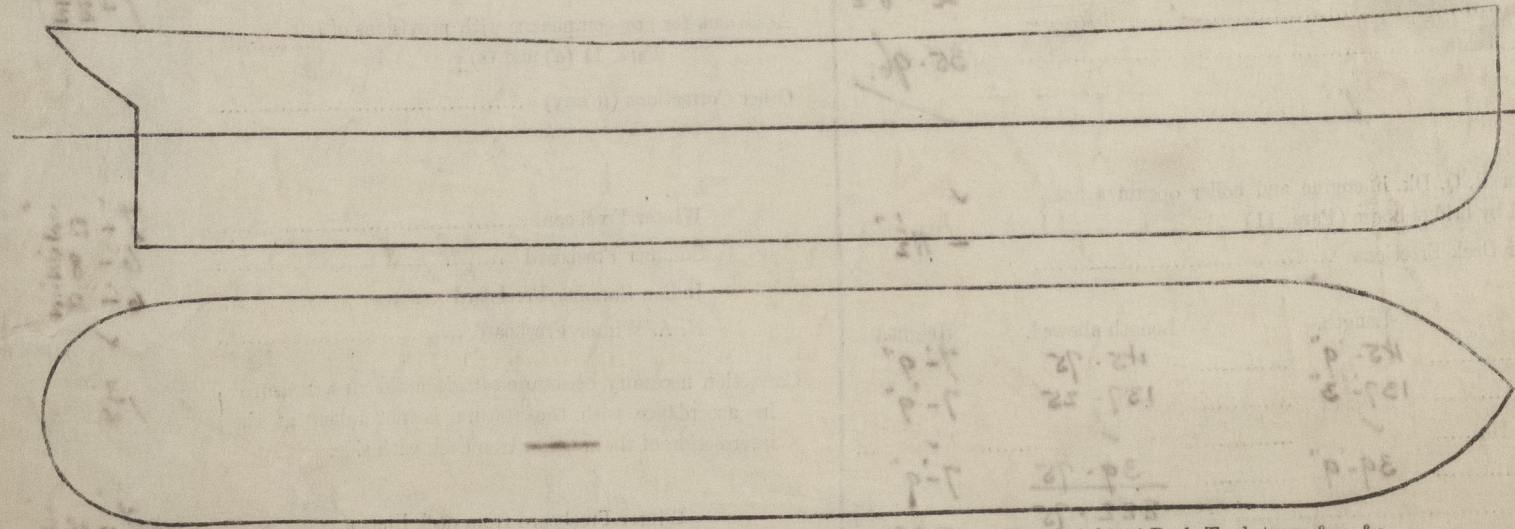
Delete the words { The Crew are, are not, berthed in the bridge house.
that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

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 (each side of vessel)	=	Sq. ft.
	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 assigned has been marked on the vessels side and a certification form is enclosed.*
Sister vessels S. S. "Hague Maru" S. S. "Havre Maru" (etc. etc.)

Owners *Osaka Shosen Kaisha*

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Received by me



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