

Lloyd's Register of British & Foreign Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

2424

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 Kobe
Date of Survey March 1915
Name of Surveyor A. L. Jones

Ship's Name. <u>Toyohashi Maru</u> (Kawasaki Dkyd. No. <u>372</u> S.S. No. in Register Book <u>34</u>)	Port of Registry and Nationality. <u>Tokio Japanese</u>	Official Number. <u>X</u>	Gross Tonnage. <u>7500</u> <u>7298</u>	Date of Build. <u>1915</u>	Particulars of Classification. <u>100A1 contemplated.</u>
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Registered dimensions from Ship's Register.	LENGTH. <u>445.0</u>	BREADTH. <u>58.0 mld</u> <u>58.2</u>	DEPTH. ✓ <u>31.4 hold</u> <u>31.0 mld.</u>	UNDER DECK TONNAGE. <u>6512</u>
Length on LOADLINE.	<u>444.75 ✓</u>	Frame Depth <u>2</u> Rule <u>117</u> <u>56</u>	Ceiling <u>fitted</u> Sheer <u>+50</u>	Peak Tanks <u>11" Kamelo</u> <u>24" sp'ford</u> <u>-3</u>
CORRECTED DIMENSIONS.	<u>444.75 ✓</u>	<u>57.236</u>	<u>31.49</u>	<u>6512</u> <u>6509</u>

Moulded Depth as measured..... 34.00

35 - 2 1/2
3 - 10 1/2
31 - 4

NOTE.— If the depth is measured when vessel afloat, the details of measurement should be reported.

CORRECTION FOR LENGTH.

Length of Ship on Loadline..... 444.75 ✓
Length in Table 408.00 ✓
Difference 36.75 ✓
Correction for 10ft., Table A. 1.7 ✓ Table C. .8
× Difference divided by 10 6.24 ✓ (if required.) 82.94
If 1/10ths length covered divide by 2 + 6 1/4 ✓ +3"

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered47
Thickness of usual wood deck, less stringer 3 1/2 -1 1/2 ✓

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 57.5 ✓
Round of Beam 14.5 ✓
Normal round..... 14.5 ✓
Difference 12 ÷ 2 = 6 ✓
Proportion of Deck uncovered (Para. 19) X

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

Co-efficient of fineness..... .80 ✓
Any modification necessary } .02 D.B. ✓
[Para. 4 (a) to (e)]* }
Co-efficient as corrected78 ✓

Sheer { Stem..... 108 } 159 ÷ 2 = 79 1/2 ✓ ... Mean
at { Sternpost ... 51 } 36 18.25

Sheer at 1/2 of the length from { Stem 56 } 80 ÷ 2 = 40 ✓ ... Mean
{ Sternpost 24 } 50

Gradual mean Sheer 72.42 ÷ .55 = 75
Standard mean Sheer [Table, Para. 18] 54.47 Correction
Difference..... 18.25 4 = -4 1/2 ✓

§ If limited as Para. 18 (f)..... 4.56

Rise in Sheer { At front of bridge house..... 10 1/2
from amidships }
[Para. 18 (e)] { At after end of forecastle 71 1/2

Fall in Sheer { Para. 18 (d) } 0 ÷ 2 =
Length uncovered 235 ft Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 6 - 0.50 6' 0 1/2 ✓
Correction for Length, if required (Para. 12, 13, and 14) 2.94 +3 ✓
6 - 3.44 6' 3 1/2 ✓
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) } 9' 5 1/4 ✓
Difference 2 - 1.44 3' 1 3/4 ✓
Percentage as below..... 50
29.9
11.29

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }
Allowance for Deck Erections 11.21 11 1/4 ✓

	Length.	Length allowed.	Height.
Forecastle.....	<u>37' 1"</u>	<u>37-1 ✓</u>	<u>7' 9"</u>
Bridge House.....	<u>138' 0"</u>	<u>138-0 ✓</u>	<u>8'-0"</u>
† Raised Qr. Dk.....			
Poop.....	<u>34' 11"</u>	<u>34-11 ✓</u>	<u>7'-9"</u>

Total 210 ft ✓
Length of Ship 445 ft ✓ = .47 ✓
Corresponding percentage (Para. 11, 12, 13, or 14) } 29.9 %

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 9 - 3.5 9' 3 1/2 ✓
Correction for Sheer 4.56 - 4 1/2 ✓
8 - 10.94 8' 11 ✓
Correction for Length 6.24 + 6 1/4 ✓
9 - 5.18 9' 5 1/4 ✓
Allowance for Deck Erections 11.28 - 11 1/4 ✓
8 - 5.90 8' - 6 ✓

Correction for Round of Beam..... ✓
Correction for fall in Sheer (if any)..... ✓
Correction for Iron Deck (if required) - 1 3/4
8' 5 1/4 4 1/4
Additions for non-compliance with provisions of }
Para. 11 (d) and (e) † }
Other Corrections (if any) ✓

Winter Freeboard 8' - 5 1/4 ✓
Summer Freeboard 7' - 2 1/2 ✓
Indian Summer Freeboard 7' - 5 3/4 ✓
N. A. Winter Freeboard ✓

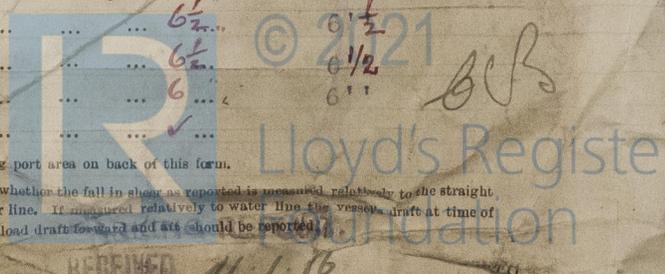
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or iron deck with side. + 2"

Winter Freeboard from deck line 8' 7 1/2 6 1/4 ✓
Summer " " " " 8' - 2 0 ✓
Indian Summer " " " " 7' 5 3/4 ✓
N. A. Winter " " " " ✓

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† 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 having an allowance for deck erections under Para. 11 where the sheer is measured above amidships the height of the measurement should be taken from the level of the top of the amidship beam.

† 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.



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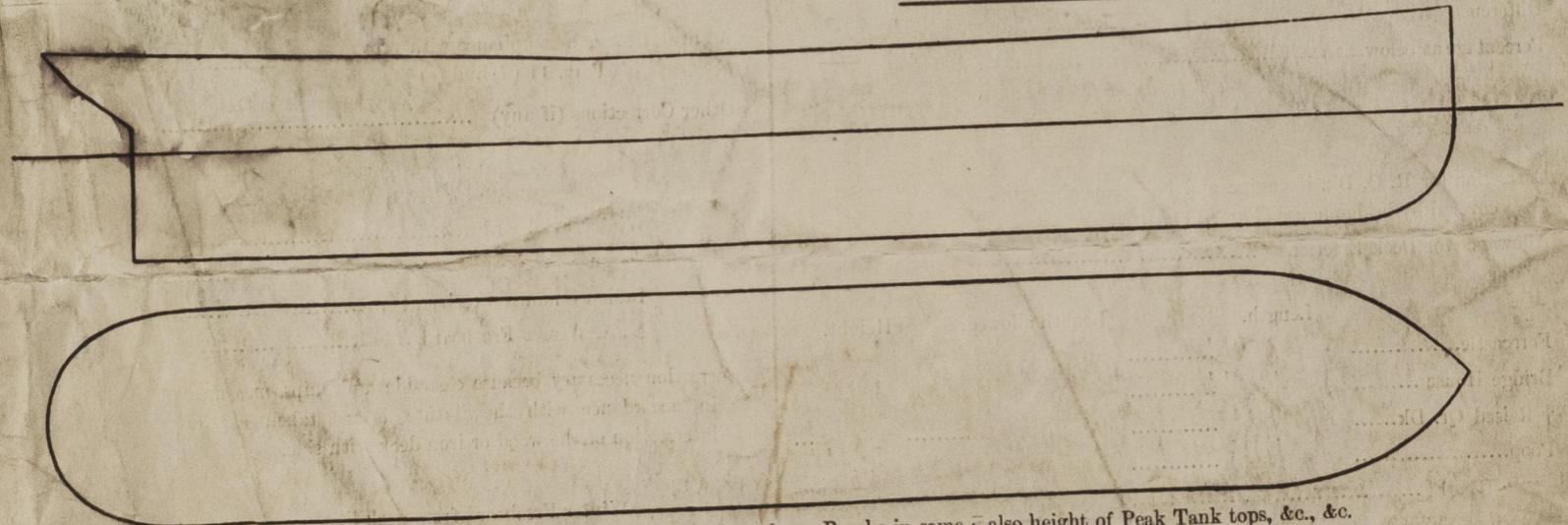
Do all the Frames extend to the top height in the Poop? Yes Raised Quarter Deck? _____ Bridge House? Yes Forecastle? Yes
 To what height do the Reverse Frames extend? Main B.A. frms. extend to upper & second decks alternately & every fourth to bridge deck, & to up. & fcsl. dks. altern'ly. All rev. bars to up. dk. in way 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 W.T. hinged 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 W.T. hinged steel doors.
 What is the thickness of the Bridge Front plating? .40 and Coaming plate? .44
 Give scantlings and spacing of the Stiffeners 9 by 3 1/2 by .64 bulb angles spaced 30 ins & bracketed top & bottom.
 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? Storm boards. in channels riveted to bulkhead plts
 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, steel
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? 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.	No. 1. 18 ft by 18'		No. 2. 31 1/2' by 20'		No. 3. 15' by 18'		No. 4. 12' by 18'		No. 5. 30' by 18'		No. 6. 21' by 18'	
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Height above top of DECK	30	30	30	30	30	30	30	30	30	30	30	30
COAMING Thickness	Sides.....	.44	.44	.52	.52	.40	.40	.36	.36	.52	.52	.44
	Ends.....	.40	.40	.40	.40	.36	.36	.36	.36	.40	.40	.40
SHIPPING BEAMS OR WEB PLATES	Number.....	Three	Three	Five	Five	Two	Two	One	One	Five	Five	Three
	Section and Scantlings.....	20 by .34	18 x .34	28 x .40	23 x .40	23 x .34	21 x .34	29 x .40	29 x .40	23 x .34	21 x .34	26 x .40
	Material.....	4x3x.40 bot. flgd.	4x3x.40	4x3x.40 bot. flgd.	4x3x.40	4x3x.40 bot. flgd.	4x3x.40	4x3x.40	4x3x.40 bot. flgd.	4x3x.40	4x3x.40	4x3x.40 bot. flgd.
* FORE AND AFTERS	Number.....											
	Section and Scantlings.....	<u>None</u>										
	Material.....											
HATCHES Thickness	3 in.	3 in.	3 in.	3 in.	3 in.	3 in.	3 in.	3 in.	3 in.	3 in.	3 in.	3 in.
Remarks.....												

* When the Fore and Afters are of wood the depth should be stated from the underside of the hatches.
 (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 _____ Sq. ft.
 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 Kawasaki Dockyard Co's Yard No. 372
 The vessel will be ready for her trials early next month. It is requested that the Summer freeboard assigned be communicated by cablegram.

Owners _____
 „ Address _____
 Rec'd _____

Received by me _____

