

14 JUN 1950

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. **42344**  
(For London Office only).

Ship's Name <b>FUJI MARU</b>	Official Number <b>63992</b>	Nationality and Port of Registry <b>JAPAN TOKYO</b>	Gross Tonnage <b>3628.52</b>	Date of Build <b>JULY 1949</b>	Port of Survey <b>YOKOHAMA</b>
Moulded Dimensions: Length <b>105.24</b> Breadth <b>15.5</b> Depth <b>8.0</b> (CR. RUDDER STOCK)					Date of Survey <b>4<sup>th</sup> MAY 1950</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>7958</b> <del>8030</del> <b>M<sup>3</sup> tons</b>					Surveyor's Signature <i>Reinold J. J. J.</i>
Coefficient of fineness for use with Tables <b>.718</b>					Particulars of Classification <b>100 A1</b> <b>CONTEMPLATED.</b>

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... <b>8.00</b>	(a) Where D is greater than Table depth $(D - \text{Table depth}) R = 8.33(8.016 - 7.016) 26.58 = +221 \text{ m/m.}$	Moulded Breadth (B) <b>15.500</b>
Stringer plate ... <b>16<sup>1</sup>/<sub>4</sub></b>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = <b>1.000</b>	Standard Round of Beam = $\frac{B \times 12}{50} = 310$
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures <b>✓</b>	Ship's Round of Beam = <b>310<sup>1</sup>/<sub>4</sub></b>
Depth for Freeboard (D) = <b>8.016</b>		Difference <b>nil.</b>
		Restricted to
		Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left( 1 - \frac{S_1}{L} \right) = \text{nil.}$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	<b>5.730</b>	<b>5.730</b>	<b>2.150</b>	<b>2122</b>	<b>5.730</b>	Standard Height of Superstructure <b>2122</b>
„ overhang ...						„ „ R.Q.D. <b>✓</b>
R.Q.D. enclosed ...						Deduction for complete superstructure <b>974</b>
„ overhang ...						Percentage covered $\frac{S}{L} =$ <b>57.96</b>
Bridge enclosed... <i>Equiv.</i>	<b>46.666</b>	<b>46.666</b>	<b>2.400</b>	<b>2122</b>	<b>46.666</b>	„ „ $\frac{S_1}{L} =$ <b>57.88</b>
„ overhang aft ...						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
„ overhang forward	<b>7.000</b>	<b>8.600</b>	<b>2.100</b>	<b>2100</b>	<b>8.511</b>	Percentage from Table, Line B. (corrected for absence of forecastle (if required)) <b>43.88</b>
Fore enclosed ...	<b>8.600</b>	<b>8.600</b>	<b>2.100</b>	<b>2100</b>	<b>8.511</b>	Interpolation for bridge less than 2L (if required)
„ overhang ...						Deduction = <b>974</b> $\times$ <b>43.88</b> = <b>-427</b>
Trunk aft ...						
„ forward ...						
Tonnage opening aft ...						
„ „ forward						
Total ...	<b>60.996</b>	<b>60.996</b>			<b>60.907</b>	

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	<b>1131</b>	<b>1</b>	<b>1131</b>	<b>1.150</b>	<b>1150</b>	<b>1</b>	<b>1150</b>			Mean actual sheer aft =
$\frac{1}{8}L$ from A.P. ...	<b>502</b>	<b>4</b>	<b>2008</b>	<b>.512</b>	<b>512</b>	<b>4</b>	<b>2048</b>			Mean standard sheer aft =
$\frac{3}{8}L$ „ ...	<b>126</b>	<b>2</b>	<b>252</b>	<b>.122</b>	<b>122</b>	<b>2</b>	<b>244</b>			Mean actual sheer forward =
Amidships ...	<b>✓</b>	<b>4</b>	<b>✓</b>	<b>0</b>	<b>✓</b>	<b>4</b>	<b>✓</b>			Mean standard sheer forward =
$\frac{5}{8}L$ from F.P. ...	<b>251</b>	<b>2</b>	<b>502</b>	<b>.253</b>	<b>253</b>	<b>2</b>	<b>506</b>			Length of enclosed superstructure forward of amidships = <b>&gt;.1L</b>
$\frac{7}{8}L$ „ ...	<b>1005</b>	<b>4</b>	<b>4020</b>	<b>1.020</b>	<b>1020</b>	<b>4</b>	<b>4080</b>			„ „ aft of „ = <b>&gt;.1L</b>
F.P. ...	<b>2261</b>	<b>1</b>	<b>2261</b>	<b>2.500</b>	<b>2500</b>	<b>1</b>	<b>2500</b>			
Total ...			<b>10174</b>				<b>10528</b>			

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{75-S}{2L} \right) = \frac{354(75-2898)}{18} = -9 \text{ m/m.}$   
If limited on account of midship superstructure, **4602**

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **8.016**

Summer freeboard = **1.225**

Moulded draught (d) = **6.791**

Deduction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{48}$  inches = **142 m/m.**

Addition for Winter North Atlantic Freeboard (if required) = **✓**

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 8030$  (AT 6.8 m.)

Tons per inch immersion at summer load water line

T = **273**

Deduction =  $\frac{\Delta}{40T}$  inches

**147 m/m**  
(as assigned by Jap. Govt)

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$\frac{718+68}{1.36} = \frac{1.398}{1.36}$

Depth Correction ... **221**

Deduction for superstructures ... **427**

Sheer correction ... **9**

Round of Beam correction ... **✓**

Correction for Thickness of Deck amidships ... **✓**

Other corrections, scantlings, etc. ... **✓**

Summer Freeboard = **1225**

## SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc ... **289 m/m.**

Fresh Water Line „ „ ... **147 m/m.**

Tropical Line „ „ ... **142 m/m.**

Winter Line below „ „ ... **142 m/m.**

Winter North Atlantic Line „ „ ... **✓**

Tropical Fresh Water Freeboard ... **289**

Fresh Water „ „ ... **147**

Tropical „ „ ... **142**

Winter „ „ ... **142**

Winter North Atlantic „ „ ... **✓**



A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

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$$\begin{aligned} \text{Length of Bridge} &= 46.20 \\ + \frac{2}{3} \times .700 &= .466 \\ \hline 46.666 &= \text{equiv. length.} \end{aligned}$$

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Trade of ship GENERAL CARGO

Names of sister ships

Builder's name and yard number TSURUMI SHIPYARD YOKOHAMA (NIPPON KOKAN KK) NO 651

Owners NIPPON YUSEN KK

Fee ¥60,000.00