

*Amended Computation for reduced  
tanker tabular freeboard.*

# LLOYD'S REGISTER OF SHIPPING

## SURVEYS FOR FREEBOARD

(COMPUTATION FOR ~~STEAMER~~, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received \_\_\_\_\_

Index No. \_\_\_\_\_

Govt. Copy \_\_\_\_\_

Owners CII \_\_\_\_\_

Ship's Name <b>TINA ONASSIS</b>	Official Number	Nationality and Port of Registry <b>Liberian</b>	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <b>221.50 m</b> Breadth <b>29.01 m</b> Depth <b>15.735</b>			Date of Survey <b>15-8-62</b>		
Freeboard Length			Surveyor's Signature _____		
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons			Particulars of Classification <b>+100 A1</b>		
Coefficient of fineness for use with Tables <b>802</b>			<b>oil tanker</b>		

<b>DEPTH FOR FREEBOARD (D).</b> Moulded depth ... <b>15.735</b> Stringer plate ... <b>0.036</b> Wood Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ _____ Depth for Freeboard (D) = <b>15.771</b>	<b>DEPTH CORRECTION.</b> (a) Where D is greater than Table depth (D-Table depth) R = <b>+268 mm</b> (b) Where D is less than Table depth (if allowed) (Table depth-D) R = _____ If restricted by superstructures	<b>ROUND OF BEAM CORRECTION.</b> Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ _____ Ship's Round of Beam = _____ Difference Restricted to Correction = $\frac{\text{Diff.}}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <b>+5 mm</b>
--	---	---

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>i</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ...						Standard Height of Superstructure _____
" overhang ...						" " R.Q.D. _____
R.Q.D. enclosed ...						Deduction for complete superstructure _____
" overhang ...						Percentage covered $\frac{S}{L} =$ _____
Bridge enclosed ...						" " $\frac{S_i}{L} =$ _____
" overhang aft ...						" " $\frac{E}{L} =$ _____
" overhang forward ...						Percentage from Table, Line A.
F'cle enclosed ...						(corrected for absence of forecastle (if required))
" overhang ...						Percentage from Table, Line B.
Trunk aft ...						(corrected for absence of forecastle (if required))
" forward ...						Interpolation for bridge less than .2L (if required)
Tonnage opening aft ...						Deduction = <b>298 mm</b>
" " forward ...						
Total ...						

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1					1		
$\frac{1}{2}L$ from A.P. ...		4					4		
$\frac{3}{4}L$ " ...		2					2		
Amidships ...	0	4	0	0	0	0	4	0	0
$\frac{3}{4}L$ from F.P. ...		2					2		
$\frac{1}{2}L$ " ...		4					4		
F.P. ...		1					1		
Total ...									

Mean actual sheer aft = \_\_\_\_\_  
 Mean standard sheer aft = \_\_\_\_\_

Mean actual sheer forward = \_\_\_\_\_  
 Mean standard sheer forward = \_\_\_\_\_

Length of enclosed superstructure forward of amidships = \_\_\_\_\_  
 " " aft of " = \_\_\_\_\_

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75-S}{2L} \right) =$  **+414 mm**  
 If limited on account of midship superstructure. If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100ft.

<b>Deduction for Tropical Freeboard.</b> Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <b>57.74</b> Summer freeboard = <b>13.84</b> Moulded draught (d) = <b>38.60</b> Keel allowance = _____ Extreme draught = _____ Deduction for Tropical freeboard and addition for = _____ Winter freeboard = $\frac{d}{4}$ inches = <b>9.65</b> Addition for Winter North Atlantic Freeboard (if required) = <b>9.65 + 223 = 16.88</b>	<b>Deduction for Fresh Water.</b> Displacement in salt water at summer load water line $\Delta =$ _____ Tons per inch immersion at summer load water line $T =$ _____ Deduction = $\frac{\Delta}{40 T}$ inches = <b>10 1/4</b>	<b>TABULAR FREEBOARD</b> <del>corrected for Fresh Deck (if required)</del> Correction for coefficient <b>1.452/1.36</b> Depth Correction ... <b>261</b> Deduction for superstructures ... <b>298</b> Sheer correction ... <b>414</b> Round of Beam correction ... <b>5</b> Correction for Thickness of Deck amidships ... <b>147</b> Other corrections, scantlings, etc. ... <b>834</b> Summer Freeboard = <b>157.65</b>	<b>125.32 3183</b> <b>136.55 3468</b> <b>21.10 +536</b> <b>4004</b> <b>13-1 3/4</b> <b>11-5 3/4</b> <b>12-3 1/2</b> <b>12-4</b> <b>13-11 1/2</b> <b>14-6 3/4</b>
--	---	--	---

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Water~~, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	<b>20</b>		Tropical Fresh Water Freeboard	<b>11-5 3/4</b>
Fresh Water Line	<b>10 1/4</b>		Fresh Water	<b>12-3 1/2</b>
Tropical Line	<b>9 3/4</b>		Tropical	<b>12-4</b>
Winter Line below	<b>9 3/4</b>		Winter	<b>13-11 1/2</b>
Winter North Atlantic Line	<b>17</b>		Winter North Atlantic	<b>14-6 3/4</b>