

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 C11

Ship's Name M/M. 13365 ALEXANDRA I	Official Number	Nationality and Port of Registry Liberian. MONROVIA.	Gross Tonnage	Date of Build Feb. 1956	Port of Survey.....
Moulded Dimensions: Length <u>197.0m</u> Breadth <u>26.4m</u> Depth <u>14.0m.</u> Freeboard Length <u>> 6463' to deck</u> Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>49300</u> tons (excluding bossing) Coefficient of fineness for use with Tables <u>0.790</u>					Date of Survey <u>11/9/62.</u> Surveyor's Signature..... Particulars of Classification <u>+ 100 A1</u> <u>CARRYING PETROLEUM IN BULK.</u>

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 14.0	(a) Where D is greater than Table depth (D—Table depth) R = + 224	Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$
Stringer plate 0.031	(b) Where D is less than Table depth (if allowed) (Table depth—D) R =	Ship's Round of Beam =
Wood Sheathing on exposed deck			Difference
$T \left(\frac{L-S}{L} \right) =$			Restricted to
Depth for Freeboard (D) = 14.031		If restricted by superstructures	Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right) = - 3$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure.....

Percentage covered $\frac{S}{L} =$

" " $\frac{S_1}{L} =$

" " $\frac{E}{L} =$

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, Line B.
(corrected for absence of forecastle (if required))

Interpolation for bridge less than .2L (if required)

Deduction = 343

343

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	
$\frac{2}{6}$ L „ ...		2				2	
Amidships ...	○	4	○	○	○	4	○
$\frac{3}{2}$ 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 =

L

„ „ aft of „ =

Mean actual sheer aft

Mean standard sheer aft =

Mean actual sheer forward

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

L

„ „ aft of „ =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{8}{21} \right) = +392$
 If limited on account of midship superstructure.

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

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta =$</p> <p>Tons per inch immersion at summer load water line</p> <p>T =</p> <p>Deduction = $\frac{\Delta}{40 T}$ inches</p>	<p>TABULAR FREEBOARD <small>corrected for Fresh Deck (if required)</small></p> <p>Correction for coefficient</p>	<p>2931</p> <p>3168</p> <p>ark</p> <p>12.9.62</p>												
<p>Depth to Freeboard Deck = 14031</p> <p>Summer freeboard = 3435</p> <p>Moulded draught (d) = 10596</p> <p>Keel allowance =</p> <p>Extreme draught =</p> <p>Deduction for Tropical freeboard and addition for =</p> <p>Winter freeboard = $\frac{d}{48}$ inches = 221 83/4</p> <p>Addition for Winter North Atlantic Freeboard (if required) = 221 + 161 = 382 = 15"</p>	<p>1.47</p> <p>1.36</p>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th style="width: 50%;">+</th> <th style="width: 50%;">-</th> </tr> <tr> <td>224</td> <td>-</td> </tr> <tr> <td>-</td> <td>343</td> </tr> <tr> <td>392</td> <td>-</td> </tr> <tr> <td>-</td> <td>3</td> </tr> <tr> <td>616</td> <td>346</td> </tr> </table>	+	-	224	-	-	343	392	-	-	3	616	346	<p>+ 270</p> <p>Summer Freeboard = 3438 = 135.34</p>
+	-														
224	-														
-	343														
392	-														
-	3														
616	346														

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

25 SEP 1962

Tropical Fresh Water Line	above	Centre of Disc	...	18 1/4
Fresh Water Line	"	"	...	9 1/2
Tropical Line	"	"	...	8 3/4
Winter Line	below	"	...	8 3/4
Winter North Atlantic Line	"	"	...	15 1/4

Tropical Fresh Water Freeboard	
Fresh Water	30"
Tropical	50"
Winter	80"
Winter North Atlantic	12"