

CONVERSION TANKER TO STEAMER  
(WITH TRUNK)

Rpt. C.11 (Comp.)

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING  
UNITED WITH THE BRITISH CORPORATION REGISTER  
SURVEYS FOR FREEBOARD  
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received .....  
Index No. ....  
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Owners C11 .....

Ship's Name <b>TITANIAN</b>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <b>442.0'</b> Breadth <b>58.5'</b> Depth <b>33.0'</b>					Date of Survey <b>15-1-56</b>
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons					Particulars of Classification <b>+100A1</b>
Coefficient of fineness for use with Tables <b>.79</b>					

<p><b>DEPTH FOR FREEBOARD (D).</b></p> <p>Moulded depth ... .. <b>33.00</b></p> <p>Stringer plate <math>(.65 + .80) = 1.45</math> ... .. <b>.12</b></p> <p>Wood Sheathing on exposed deck</p> <p><math>T \left( \frac{L-S}{L} \right) =</math> /</p> <p>Depth for Freeboard (D) = <b>33.12</b></p>	<p><b>DEPTH CORRECTION.</b></p> <p>(a) Where D is greater than Table depth <math>(D - \text{Table depth}) / R =</math> <math>(33.12 - 29.47) / 3.0 = 10.95</math> ✓</p> <p>(b) Where D is less than Table depth (if allowed) (Table depth - D) R =</p> <p>If restricted by superstructures</p>	<p><b>ROUND OF BEAM CORRECTION.</b></p> <p>Moulded Breadth (B) <b>58.50</b> ✓</p> <p>Standard Round of Beam = <math>\frac{B \times 12}{50} = 14.04</math> ✓</p> <p>Ship's Round of Beam = <b>14.50</b> ✓</p> <p>Difference <b>.46</b> ✓</p> <p>Restricted to <b>.115</b> ✓</p> <p>Correction = <math>\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{.46^2}{4} \times .1204 = .01</math> ✓</p>
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**DEDUCTION FOR SUPERSTRUCTURES.**

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed	107.00	107.00	7.51	-	107.00
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	29.00	29.00	7.51	-	29.00
" overhang aft					
" overhang forward					
F'cle enclosed	41.54	41.54	7.51	-	41.54
" overhang					
Trunk aft	162.25	129.38	7.51	-	129.38
" forward	102.21	81.48	7.51	-	81.48
Tonnage opening aft					
" forward					
Total	177.54	388.30			388.40

Standard Height of Superstructure **7.5'** ✓  
R.Q.D. \_\_\_\_\_  
Deduction for complete superstructure **42.00** ✓  
Percentage covered  $\frac{S}{L} = 40.17$  ✓  
 $\frac{S_1}{L} =$  } **87.86** ✓  
 $\frac{E}{L} =$  }  
Percentage from Table, Line A. **VB 85.04** ✓  
(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 =  $42.00 \times .8504 = 35.72$  ✓

**SHEER CORRECTION.**

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	54.20	1			56.40		1		56.40
1/8 L from A.P.		4			15.60		4		62.40
2/8 L		2			0		2		0
Amidships	0	4	0	0	0	0	4	0	0
3/8 L from F.P.		2			14.40		2		28.80
1/8 L		4			54.00		4		216.00
F.P.	108.40	1			108.00		1		108.00
Total				487.80					474.60

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{16.20}{18} \left( .75 - \frac{2008}{144.04} \right) = +.49$  ✓  
If limited on account of midship superstructure. \_\_\_\_\_  
If limited to maximum allowance of 1 1/2 ins. per 100ft. \_\_\_\_\_

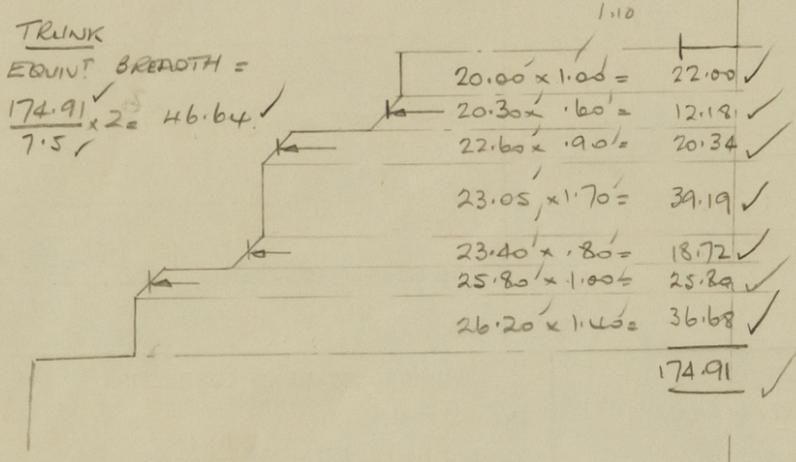
Mean actual sheer aft = **71.44%** Deficient (say 75%)  
Mean standard sheer aft = \_\_\_\_\_  
Mean actual sheer forward = **EXCESS** ✓  
Mean standard sheer forward = \_\_\_\_\_  
Length of enclosed superstructure forward of amidships = } Sheer Deficient  
" " aft of " = } Sheer Deficient

<p><b>Deduction for Tropical Freeboard.</b></p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <b>33.06</b> Ft. ✓ Summer freeboard = <b>5.60</b> ✓ Moulded draught (d) = <b>27.52</b> ✓ Keel allowance = _____ Extreme draught = _____ Deduction for Tropical freeboard and addition for = _____ Winter freeboard = <math>\frac{d}{4}</math> inches = _____ Addition for Winter North Atlantic Freeboard (if required) = _____</p>	<p><b>Deduction for Fresh Water.</b></p> <p>Displacement in salt water at summer load water line</p> <p><math>\Delta =</math> _____</p> <p>Tons per inch immersion at summer load water line</p> <p>T = _____</p> <p>Deduction = <math>\frac{\Delta}{40 T}</math> inches = _____</p>	<p><b>TABULAR FREEBOARD corrected for Flush Deck (if required)</b></p> <p>Correction for coefficient <math>\frac{.79 + .68}{1.36} = 1.47 / 1.36</math></p> <table border="1"> <tr> <td>+</td> <td>-</td> </tr> <tr> <td>Depth Correction</td> <td>10.95</td> </tr> <tr> <td>Deduction for superstructures</td> <td>35.72</td> </tr> <tr> <td>Sheer correction</td> <td>.49</td> </tr> <tr> <td>Round of Beam correction</td> <td>.01</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td>-</td> </tr> <tr> <td></td> <td>11.44</td> </tr> <tr> <td></td> <td>35.73</td> </tr> <tr> <td></td> <td>- 24.29</td> </tr> <tr> <td></td> <td>Summer Freeboard = 67.17 ✓</td> </tr> </table>	+	-	Depth Correction	10.95	Deduction for superstructures	35.72	Sheer correction	.49	Round of Beam correction	.01	Correction for Thickness of Deck amidships	-	Other corrections, scantlings, etc.	-		11.44		35.73		- 24.29		Summer Freeboard = 67.17 ✓
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**SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-**

Tropical Fresh Water Line above Centre of Disc	...	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	Fresh Water	"
Tropical Line	"	Tropical	"
Winter Line	below	Winter	"
Winter North Atlantic Line	"	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.



Trade of ship \_\_\_\_\_

Names of sister ships \_\_\_\_\_

Builder's name and yard number \_\_\_\_\_

Owners \_\_\_\_\_

Fee £ \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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Foundation