

AMENDED.

Rpt. C.11 (Comp.).

Index No. 37801
(For London Office only.)

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

SIMILAR
VICTORIA PARK
37207.

Ship's Name TAPAJOS EX. SAINT MALO	Official Number 175590	Nationality and Port of Registry PANAMA PANAMA	Gross Tonnage 2877.	Date of Build 1944	Port of Survey —
Moulded Dimensions: Length 310.44 Breadth 46.33 Depth 25.16					Date of Survey 3 Dec 1951
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 6690 tons					Surveyor's Signature
Coefficient of fineness for use with Tables .761					Particulars of Classification + 100 A1

DEPTH FOR FREEBOARD (D). Moulded depth ... 25.61 Stringer plate4003 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 25.19	DEPTH CORRECTION. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(25.19 - 20.70) 2.388 = +10.72"$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 46.33 Standard Round of Beam = $\frac{B \times 12}{50} =$ 11.12 Ship's Round of Beam = 11.12 Difference Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.12}{4} \times .5624 = +.02"$
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DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	31.21	31.21	7.75	-	31.21
" overhang	2.00	1.00	-	-	1.00
R.Q.D. enclosed	-	-	-	-	-
" overhang	-	-	-	-	-
Bridge enclosed	76.00	68.40	9.00	-	68.40
" overhang aft	4.00	3.00	-	-	3.00
" overhang forward	2.00	1.00	-	-	1.00
F'cle enclosed	31.23	31.23	7.00	-	31.23
" overhang	-	-	-	-	-
Trunk aft	-	-	-	-	-
" forward	-	-	-	-	-
Tonnage opening aft	-	-	-	-	-
" " forward	-	-	-	-	-
Total	146.44	135.84			135.84

Standard Height of Superstructure **6.604**
 " " R.Q.D. **-**
 Deduction for complete superstructure **36.03**
 Percentage covered $\frac{S}{L} =$ **47.17**
 " " $\frac{S_1}{L} =$ **43.76**
 " " $\frac{E}{L} =$ **43.76**
 Percentage from Table, Line A.
 (corrected for absence of forecastle (if required))
 Percentage from Table, Line B. **30.69**
 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than .2L (if required)
 Deduction = **36.03 x .3069 = 11.06"**

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	41.04	1	41.04	18.5	18.50	1	18.50
$\frac{1}{2}$ L from A.P.	18.26	4	73.04	1.6	1.60	4	6.40
$\frac{3}{8}$ L " "	4.51	2	9.02	-	-	2	-
Amidships	-	4	-	-	-	4	-
$\frac{3}{8}$ L from F.P.	9.03	2	18.06	-	-	2	-
$\frac{1}{2}$ L " "	36.53	4	146.12	14.8	14.80	4	59.20
F.P.	82.08	1	82.08	66.0	66.00	1	66.00
Total			369.36				150.10

Mean actual sheer aft = **Deficient**
 Mean standard sheer aft = **Deficient**
 Mean actual sheer forward = **Deficient**
 Mean standard sheer forward = **Deficient**
 Length of enclosed superstructure forward of amidships = **Deficient**
 " " aft of " = **sheer**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{219.26 - 2358}{18} = +6.26"$
 If limited on account of midship superstructure. **51.42** If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 25.19 Summer freeboard = 4.56 Moulded draught (d) = 20.63 Keel allowance = .17 Extreme draught = 20.80 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 5.16 = 131 m/m Addition for Winter North Atlantic Freeboard (if required) = 131 + 51 = 182 m/m	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 6535 Tons per inch immersion at summer load water line $T =$ 28.89 Deduction = $\frac{\Delta}{40 T}$ inches = 5.66" = 144 m/m	TABULAR FREEBOARD (corrected for Flush Deck (if required)) Correction for coefficient $\frac{68 + .761}{1.36} = \frac{1.441}{1.36}$ <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td>10.72</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures</td> <td>-</td> <td>11.06</td> </tr> <tr> <td>Sheer correction</td> <td>6.26</td> <td>-</td> </tr> <tr> <td>Round of Beam correction</td> <td>.02</td> <td>-</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>-</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td>17.00</td> <td>11.06</td> </tr> </table> Summer Freeboard = 54.69 = 1389 m/m		+	-	Depth Correction	10.72	-	Deduction for superstructures	-	11.06	Sheer correction	6.26	-	Round of Beam correction	.02	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		17.00	11.06
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Winter Steel, Deck :-			
Tropical Fresh Water Line above Centre of Disc	...	275 m/m	Tropical Fresh Water Freeboard
Fresh Water Line	"	144	Fresh Water
Tropical Line	"	131	Tropical
Winter Line below	"	131	Winter
Winter North Atlantic Line	"	182	Winter North Atlantic

1389 m/m
 1245
 1258
 1520
 1571