

PRELIMINARY.

Rpt. C.11 (Comp.)

D. VAGHIA, T-L.

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER)
 Received
 Index No.
 Govt. Copy
 Owners C11

Ship's Name LETIZIA MONTANARI	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build 1942-4. CONV. TANKER. 1955.	Port of Survey
Moulded Dimensions: Length 476.17' Breadth 68.00' Depth 36.00'					Date of Survey 2.9.59
Freeboard Length 476.17' 10 CR. OF RAD.					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) tons					Particulars of Classification +100A1.
Coefficient of fineness for use with Tables .757. (751)					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	36.00'	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	68.00'
Stringer plate	.82"	(36.07 - 31.74) 3' = 12.99'		Standard Round of Beam = $\frac{B \times 12}{50}$	16.32'
Wood Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	17.00'
$T \left(\frac{L-S}{L} \right) =$				Difference	.68'
Depth for Freeboard (D) =	36.07'	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.68}{4} \times .691 = .12'$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	113.20	113.20	7.5'		113.20
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
Fore enclosed	33.92	33.92	7.5'		33.92
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	147.12	147.12			147.12

Standard Height of Superstructure	7.5'
" " R.Q.D.	42'
Deduction for complete superstructure	
Percentage covered $\frac{S}{L} =$	30.90%
" " $\frac{S_1}{L} =$	
" " $\frac{E}{L} =$	
Percentage from Table, Line A.	15.76%
(corrected for absence of fore-castle (if required))	
Percentage from Table, Line B.	
(corrected for absence of fore-castle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction =	$42 \times .1576 = 6.62'$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	57.62	1			45.75	45.75	1		45.75
$\frac{1}{2}$ L from A.P.		4			20.50	20.50	4		82.00
$\frac{2}{3}$ L		2			5.38	5.38	2		10.76
Amidships	0	4	0		0	0	4	0	
$\frac{2}{3}$ L from F.P.		2			6.75	6.75	2		13.50
$\frac{1}{2}$ L		4			26.75	26.75	4		107.00
F.P.	115.23	1			62.00	62.00	1		62.00
Total				518.58					321.01

 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 = Difference between sums of products $\left(.75 - \frac{S}{2L} \right) =$
 If limited on account of midship superstructure.
.5955 = +6.54'

If limited to maximum allowance of 1 1/2 ins. per 100ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

 Depth to Freeboard Deck = **36.07'**
 Summer freeboard = **9.33'**
 Moulded draught (d) = **26.74'**
 Keel allowance =
 Extreme draught =
 Deduction for Tropical freeboard and addition for = **6.68'**
 Winter freeboard = $\frac{d}{4}$ inches = **6 3/4"**

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

 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
 = **180 mm.**
7"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **$\frac{.757 + .68}{1.36} = 1.437/1.36$**
 Depth Correction
 Deduction for superstructures
 Sheer correction
 Round of Beam correction
 Correction for Thickness of Deck amidships
 Other corrections, scantlings, etc.

	+	-
Depth Correction	12.99	6.62
Deduction for superstructures	6.54	12
Sheer correction		
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
Summer Freeboard	19.53	12.79

Summer Freeboard = **113.33 (19' 5 3/4")**

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

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

 Tropical Fresh Water Freeboard
 Fresh Water " "
 Tropical " "
 Winter " "
 Winter North Atlantic " "

LETIZIA MONTANARI

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.

Perp Length
length @ side:
+ 23 x 6'-1/2 :

109'-1/2"
4'-1"
113'-2 1/2 = 113.2

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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