

PRELIMINARY.

Rpt. G.11 (Comp.)

DOUGHERTY, T-L.

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received _____
Index No. _____
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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 RD.					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.					

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 = (36.07-31.74) 3' = 12.99"	Moulded Breadth (B) 68.00
Stringer plate82"07	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 16.32$
Wood Sheathing on exposed deck	If restricted by superstructures	Ship's Round of Beam = 17.00
$T \left(\frac{L-S}{L} \right) =$		Difference .68
Depth for Freeboard (D) = 36.07		Restricted to
		Correction = $\frac{\text{Diff.}}{4} \times (1 - \frac{S}{L}) = \frac{.68}{4} \times .691 = .12$

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 **42'**

Percentage covered $\frac{S}{L} =$ **30.90%**

" " $\frac{S_1}{L} =$ **30.90%**

" " $\frac{E}{L} =$ **15.76%**

Percentage from Table, Line A. **15.76%**

(corrected for absence of forecastle (if required))

Percentage from Table, Line B: **15.76%**

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = **42' 15.76% = 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
$\frac{3}{4}L$		2			5.38	5.38	2		10.76
Amidships		4					4		
$\frac{3}{4}L$ 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 = **59.55'**

Mean standard sheer aft = **59.55'**

Mean actual sheer forward = **107.00'**

Mean standard sheer forward = **107.00'**

Length of enclosed superstructure forward of amidships = **Nil.**

" " aft of " = **Nil.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{59.55 - 59.55}{18} \left(\frac{75-154.5}{2 \times 147.12} \right) = 0$

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient 1.36
Depth to Freeboard Deck = 36.07	$\Delta =$	Depth Correction 12.99
Summer freeboard = 9.33	Tons per inch immersion at summer load water line	Deduction for superstructures 6.62
Moulded draught (d) = 26.74	T =	Sheer correction 6.54
Keel allowance =	Deduction = $\frac{\Delta}{40} T$ inches	Round of Beam correction 12.79
Extreme draught =	= 180 mm.	Correction for Thickness of Deck amidships 1
Deduction for Tropical freeboard and addition for = 6.68	7"	Other corrections, scantlings, etc.
Winter freeboard = $\frac{d}{4}$ inches = 6.68		
Addition for Winter North Atlantic Freeboard (if required) =		

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood Steel, Deck :-		
Tropical Fresh Water Line above Centre of Disc 13.54		Tropical Fresh Water Freeboard 8.24
Fresh Water Line 7.24		Fresh Water 8.24
Tropical Line 6.24		Tropical 8.24
Winter Line below 6.24		Winter 8.24
Winter North Atlantic Line 1		Winter North Atlantic 8.24

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.

Peep Length
length @ side :
+ $\frac{2}{3} \times 6' - 1\frac{1}{2}''$:

$109' - 1\frac{1}{2}''$
 $4' - 1''$

 $113' - 2\frac{1}{2}'' = 113.2$

Trade of ship _____

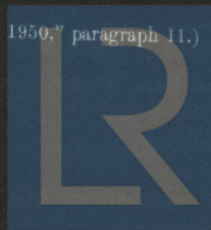
Names of sister ships _____

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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