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LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received

Index No.

Govt. Copy

Owners C11

Ship's Name ANASTASIA. EX JACQUES MARIE.	Official Number	Nationality and Port of Registry GREEK. HELLAS.	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 65.530 Breadth 10.363 Depth 4.890					Date of Survey 2.8.56
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing)					Particulars of Classification 100 A1
Coefficient of fineness for use with Tables .85 ASSUMED.					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	... 4.890	(a) Where D is greater than Table depth (D - Table depth) R = 8.33(4.906 - 4.369) 16.528 = +74.1		Moulded Breadth (B)	10.363
Stringer plate	... 16	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	207
Wood Sheathing on exposed deck				Ship's Round of Beam	210
$T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures		Difference	3
Depth for Freeboard (D) =	4.906			Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right)$	$\frac{3}{4} \times .2889 = \text{NIL}$

DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	5200	5200	2130	✓	5200
" overhang					
R.Q.D. enclosed	14820	14820	1160	✓	14820
" overhang					
Bridge enclosed	18240	18240	2130	✓	18240
" overhang aft					
" overhang forward	230	115			115
Fore enclosed	8224	8224	2270	✓	8224
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	46.714	46.599			46.599

Standard Height of Superstructure	1830
" " R.Q.D.	1148
Deduction for complete superstructure	699
Percentage covered $\frac{S}{L} =$	71.29
" " $\frac{S_1}{L} =$	71.11
" " $\frac{E}{L} =$	
Percentage from Table, Line A.43	64.36
(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 =	699 x .6436 = 450

SHEER CORRECTION.							
Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S
A.P.	800	1		800	1.050	1.050	1
$\frac{1}{4}L$ from A.P.	355	4		1420	.410	.410	4
$\frac{2}{4}L$ "	89	2		178	.050	.050	2
Amidships	0	4		0	0	0	4
$\frac{3}{4}L$ from F.P.	178	2		356	.390	.390	2
$\frac{1}{4}L$ "	711	4		2844	1.110	1.110	4
F.P.	1600	1		1600	2.100	2.100	1
Total				7198			

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **.0839**
aft of " = **.711**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{2912}{18} \left(.75 - \frac{.3564}{2} \right) = -64$
If limited on account of midship superstructure. **YES**, $1.527 \times .64 = -.99$

If limited to maximum allowance of $1\frac{1}{2}$ 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	653
Depth to Freeboard Deck = 4.906		$\Delta =$.85 + 1.53	735
Summer freeboard = 300		Tons per inch immersion at summer load water line		1.26	
Moulded draught (d) = 4.606		T =		Depth Correction	74
Keel allowance =		Deduction = $\frac{\Delta}{40 T}$ inches		Deduction for superstructures	450
Extreme draught =		100		Sheer correction	59
Deduction for Tropical freeboard and addition for =				Round of Beam correction	
Winter freeboard = $\frac{d}{48}$ inches = 96-1				Correction for Thickness of Deck amidships	
Addition for Winter North Atlantic Freeboard (if required) = 96.51				Other corrections, scantlings, etc.	
					74 509 - 435
					Summer Freeboard = 300

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-			
Tropical Fresh Water Line above Centre of Disc	1.96	Tropical Fresh Water Freeboard	1.04
Fresh Water Line	1.00	Fresh Water	2.00
Tropical Line	.96	Tropical	2.04
Winter Line below	.96	Winter	3.96
Winter North Atlantic Line	1.47	Winter North Atlantic	4.47