

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 GANESSELLA	Official Number 301173	Nationality and Port of Registry British LIBERIAN MONROVIA	Gross Tonnage 5739	Date of Build 1946 Alterations 1952	Port of Survey -
Moulded Dimensions: Length 384' 6 c.p.s. Breadth 62' 6" Depth 26' 3"					Date of Survey 7/3/60
Freeboard Length 384' 6 c.p.s.					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 12,545 tons (excluding bossing)					Particulars of Classification +100A1 oil Tanker In Service in Indonesian Archipelago.
Coefficient of fineness for use with Tables .820					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 26.25	(a) Where D is greater than Table depth (D-Table depth) R = (26.30-25.60)2.954 = +2.07	Moulded Breadth (B) 62.50
Stringer plate05	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{62.50 \times 12}{50} = 15.00$
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 16.00
Depth for Freeboard (D) = 26.30		Difference 1.00
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{1}{4} \times .7551 = -.19$

DEDUCTION FOR SUPERSTRUCTURES.					Standard Height of Superstructure 7.34
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	R.Q.D.
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed equivalent	63.87	63.87	8.0	63.87	
" overhang aft55	.41		.41	
" overhang forward					
F'cle enclosed	29.75	29.75		29.75	
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	94.17	94.03		94.03	
					Deduction for complete superstructure 40.93
					Percentage covered $\frac{S}{L} = \frac{24.52}{100} = 24.52$
					" " $\frac{S_1}{L} = \frac{24.49}{100} = 24.49$
					Percentage from Table, Line A Tanker 17.14
					(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 = 40.93 x .1714 = 7.02

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	48.40	1	48.40	27.50	27.50	1	27.50
1/4 L from A.P.	21.54	4	86.16	2.99	2.99	4	11.96
2/8 L "	5.32	2	10.64	0	0	2	0
Amidships	0	4	0	0	0	4	0
2/8 L from F.P.	10.65	2	21.30	0	0	2	0
1/4 L "	43.08	4	172.32	1.50	1.50	4	6.00
F.P.	96.80	1	96.80	53.00	53.00	1	53.00
Total			435.62				98.46
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{337.16}{18} (.75 - .1226) = +11.75$							
If limited on account of midship superstructure. .6274 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)	58.82
Addition for Winter and Winter North Atlantic Freeboard.		Correction for coefficient $\frac{.68 + .72}{1.36} = \frac{1.50}{1.36}$	64.88
Depth to Freeboard Deck = 26.30	Displacement in salt water at summer load water line $\Delta = 11375$	Depth Correction 2.07	
Summer freeboard = 5.96	Tons per inch immersion at summer load water line 50	Deduction for superstructures 7.02	
Moulded draught (d) = 20.34	Deduction = $\frac{\Delta}{40 T}$ inches = 5.58	Sheer correction 11.75	
Keel allowance =	= 5 1/2	Round of Beam correction19	
Extreme draught =		Correction for Thickness of Deck amidships	
Deduction for Tropical freeboard and addition for =		Other corrections, scantlings, etc.	
Winter freeboard = $\frac{d}{4}$ inches = 5.07 = 5 1/4			
Addition for Winter North Atlantic Freeboard (if required) = 5.07 + 3.84 = 8.91 = 9			
		Summer Freeboard = 71.49 = 1816 mm	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood Steel, Deck :-					
Tropical Fresh Water Line above Centre of Disc	10 3/4	27 cm	Tropical Fresh Water Freeboard	5 1/2	14 cm
Fresh Water Line	5 1/2	14 cm	Fresh Water	5 1/2	14 cm
Tropical Line	5 1/4	13 cm	Tropical	5 1/4	13 cm
Winter Line below	✓		Winter	NOT ASSIGNED	
Winter North Atlantic Line	✓		Winter North Atlantic	NOT ASSIGNED	