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(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

PARNASSOS

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

a poop, bridge and forecastle

Port of Survey

Hamburg

Date of Survey

18-3-37

Name of Surveyor

Friedrich Olgen

Ship's Name

Nueva Granada

(Type of Superstructures.)

Nationality and Port of Registry

Norwegian  
Oslo

Official Number

-

Gross Tonnage

10000

Date of Build

1937

Moulded Dimensions: Length

496.25

Breadth

67.00

Depth

34.17

Moulded displacement at moulded draught = 85 per cent. of moulded depth

21348

tons

Coefficient of fineness for use with Tables

.774

Particulars of Classification

+100AT  
Carrying petroleum in bulk

Depth for Freeboard (D)

Moulded depth ...

34.17

Stringer plate ...

.07

Sheathing on exposed deck

T  $\frac{L-S}{L}$  =

Depth for Freeboard (D) =

34.24

Depth correction

(a) Where D is greater than Table depth  
(D - Table depth) R =

$(34.24 - 33.08) \times 3 = + 3.48$

(b) Where D is less than Table depth (if allowed)  
(Table depth - D) R =

If restricted by superstructures

Round of Beam correction

Moulded Breadth (B)

67

Standard Round of Beam =  $\frac{B \times 12}{50} = 16.08$

Ship's Round of Beam = 16.14

Difference

.06

Restricted to

Correction =  $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) = \frac{.06}{4} \times .5469 = -.01$

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	123.12	123.12	8.00	-	123.12
" overhang ...	2.39	1.19	"	-	1.19
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed...	38.32	38.32	7.25	$\times 7.25 / 7.5$	37.04
" overhang aft ...	2.39	1.79	"		1.73
" overhang forward	.66	.33			.32
F'cle enclosed ...	60.10	60.10	7.51	-	60.10
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward					
Total ...	226.98	224.85			223.50

Standard Height of Superstructure 7.5'

" " R.Q.D.

Deduction for complete superstructure 42'

Percentage covered  $\frac{S}{L} = 45.74$

"  $\frac{S_1}{L} = 45.31$

"  $\frac{E}{L} = 45.03$

Percentage from Table, Line A. Tanker 36.03  
(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 =  $42 \times 36.03 = - 15.13$

### SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	59.62	1		59.62	57.80	57.80	1		57.80
$\frac{1}{2}$ L from A.P. ...	26.53	4		106.12	26.89	26.89	4		107.56
$\frac{3}{8}$ L " ...	6.56	2		13.12	3.19	3.19	2		6.38
Amidships ...	-	4		-	-	-	4		-
$\frac{3}{8}$ L from F.P. ...	13.12	2		26.24	13.39	13.39	2		26.78
$\frac{1}{2}$ L " ...	53.06	4		212.24	52.28	52.28	4		209.12
F.P. ...	119.25	1		119.25	118.90	118.90	1		118.90
Total ...				536.59					526.54

Mean actual sheer aft = Deficient  
Mean standard sheer aft

Mean actual sheer forward = Deficient  
Mean standard sheer forward

Length of enclosed superstructure forward of amidships = } sheer  
" " aft of " = } Deficient

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{75 - S}{2L} \right) = \frac{10.05}{18} \left( \frac{75 - 22.87}{52.13} \right) = +.29$

If limited on account of midship superstructure.

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 34.24

Summer freeboard = 6.77

Moulded draught (d) = 27.475

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 6.82 = 6  $\frac{3}{4}$

Addition for Winter North Atlantic Freeboard (if required) = 6.82 + 4.96 = 11.78 = 11  $\frac{3}{4}$

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 20385 \text{ m}^3$

Tons per inch immersion at summer load water line

T = 70.7

Deduction =  $\frac{\Delta}{40T}$  inches

= 7.21 = 7  $\frac{1}{4}$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient  $\frac{.774 + .68}{1.36} = \frac{1.454}{1.36} =$

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc. ...

86.60

92.60

+

-

3.48

15.13

0.29

0.01

-

-

3.77

15.14

- 11.37

Summer Freeboard = 81.23.17

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

Tropical Fresh Water Line above Centre of Disc ...

14" = 355

Fresh Water Line " " ...

7  $\frac{1}{4}$  = 184

Tropical Line " " ...

6  $\frac{3}{4}$  = 171

Winter Line below " " ...

6  $\frac{3}{4}$  = 171

Winter North Atlantic Line " " ...

11  $\frac{3}{4}$  = 298

Tropical Fresh Water Freeboard ...

5  $\frac{7}{8}$  = 1709

Fresh Water " " ...

6  $\frac{1}{2}$  = 1880

Tropical " " ...

6  $\frac{1}{2}$  = 1893

Winter " " ...

7  $\frac{1}{4}$  = 2235

Winter North Atlantic " " ...

7  $\frac{1}{4}$  = 2362

20 APR 1937

5c, 8, 30.

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