

Rpt. C.11 (Comp.).

ROSA MAERSK
42667

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

13 DEC 1949

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name M.S. NELLY MAERSK	Official Number .	Nationality and Port of Registry Danish,	Gross Tonnage .	Date of Build 12. 1949	Port of Survey NEWCASTLE-ON-TYNE
Moulded Dimensions: Length 450.00' Breadth 62.67' Depth 34.50'					Date of Survey During construction
Freeboard Length 450.00'					Surveyor's Signature <i>H. J. Ham</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth 18325 tons					Particulars of Classification +100 A1
Coefficient of fineness for use with Tables 78					Carrying Petroleum in Bulk.

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth ...	34.5'	(a) Where D is greater than Table depth (D - Table depth) R = (34.57 - 30.00) 3 = +13.71		Moulded Breadth (B)	62.67'
Stringer plate ...	0.78"	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	15.04
Local thickness of Stringer at Midships	0.94"	If restricted by superstructures		Ship's Round of Beam	15"
Depth for Freeboard (D) =	34.57			Difference	.04
				Restricted to	
				Correction = $\frac{\text{Diff.}}{4} \times (1 - \frac{S_1}{L})$	= .04 x .5800 = +.01

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	96.00	96.00	7.67	✓	96.00
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed	37.5	37.50	7.5	✓	37.50
„ overhang aft					
„ overhang forward					
Fore enclosed	55.5	55.50	7.5	✓	55.50
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ forward					
Total	189.00	189.00			189.00

Standard Height of Superstructure	7.50
„ „ R.Q.D.	✓
Deduction for complete superstructure	42.00
Percentage covered $\frac{S}{L}$	42.00
„ „ $\frac{S_1}{L}$	✓
„ „ $\frac{E}{L}$	✓
Percentage from Table, Line A. TANKER	33.00
(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 = $42.00 \times .3300 = -13.86$	✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	55.00	1	✓	55.00	55.00	55.00	1	✓	55.00
$\frac{1}{8}L$ from A.P. ...	24.475	4	✓	97.90	24.44	24.44	4	✓	97.76
$\frac{3}{8}L$ „ ...	6.05	2	✓	12.10	6.11	6.11	2	✓	12.22
Amidships ...	✓	4	✓	0	✓	✓	4	✓	✓
$\frac{5}{8}L$ from F.P. ...	12.10	2	✓	24.20	12.22	12.22	2	✓	24.44
$\frac{7}{8}L$ „ ...	48.95	4	✓	195.80	48.88	48.88	4	✓	195.52
F.P. ...	110.00	1	✓	110.00	110.00	110.00	1	✓	110.00
Total ...				495.00					494.94

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{.06(.75 - .2100)}{18 \times .5400} = \text{NIL.}$

If limited on account of midship superstructure. ✓

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 „ =

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **34.58**

Summer freeboard = **6.71**

Moulded draught (d) = **27.87**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **6.97**

Addition for Winter North Atlantic Freeboard (if required) = **6.97 + 4.50 = 11.47**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 17398$

Tons per inch immersion at summer load water line

T = **58.04**

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

= **7.49**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

75.10	✓
80.62	✓
13.71	✓
13.86	✓
.01	✓
.12	✓
13.84	✓
13.86	✓
.02	✓
80.60	✓

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 „

Nelly Maersk.

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.

% Depth Mid.	Draft Mid.	Extreme Dispt.	Tons per inch.
70 %	24.150'	14866 tons	56.43
80 %	27.600'	17212 "	57.92
90 %	31.050'	19589 "	59.40
	3.450	.2377	1.48

31.050

27.87

27.870

27.60

3.450

.27

3.450

x 2377 =

186

17212

17398

80.78

.27

3.450

1.48

= .12

57.92

58.04

Trade of ship Carrying Petroleum in Bulk.

Names of sister ships

Builder's name and yard number Blyth Drydock & Shipbuilding Co: No 342

Owners A. P. Møller.

Fee £ 10 THREE WITH FIRST ENTRY FEB.



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