

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Nacella
36713

C102156

Ship's Name "NEVERITA"	Official Number 169884.	Nationality and Port of Registry British, London	Gross Tonnage 8265	Date of Build 1944	NEWCASTLE-ON-TYNE Port of Survey Date of Survey During Construction. Surveyor's Signature E. H. Dean & L. Little Particulars of Classification F100A-1. Carrying petroleum in bulk. (Class contemplated).
Moulded Dimensions: Length 461'-0" Breadth 59'-0" Depth 34'-0" Moulded displacement at moulded draught = 85 per cent. of moulded depth 17733 tons Coefficient of fineness for use with Tables .79x					
Depth for Freeboard (D). Moulded depth 34'-0" Stringer plate07" Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 34.07'		Depth correction. (a) Where D is greater than Table depth (D—Table depth) R = $(34.07 - 30.73) \times 3 = +10.02$ ✓ $\frac{3.34}{}$ (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) 59'-0" ✓ Standard Round of Beam = $\frac{B \times 12}{50} =$ 14.16 ✓ Ship's Round of Beam = 1'-2³/₄" Difference .59 ✓ Restricted to Correction = $\frac{\text{Diff}^n}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{.59}{4} \times .5728$ ✓ = -.081	

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>equivalent</i>	96.09	96.09	7.5	-	96.09
„ overhang ...	93.8 1/4	7.6			
R.Q.D. enclosed					
„ overhang	47.20	47.20	7.5	-	47.20
Bridge enclosed <i>equivalent</i>	44.7 1/4	7.6			
„ overhang aft	7.6.50	5.62			5.62
„ overhang forward	6.04	48.04	7.5	-	48.04
F'cle enclosed	48.0 1/2	7.6			
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	198.83	196.95			196.95

Standard Height of Superstructure 7.5'

„ „ R.Q.D. -

Deduction for complete superstructure 42'

Percentage covered $\frac{S}{L} = 43.13\%$

„ „ $\frac{S_1}{L} = 42.72\%$

„ „ $\frac{E}{L} =$

Percentage from Table, Line A. *Tankers* 33.72%
(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 = $42 \times 33.72 = -14.16\%$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	Mean actual sheer aft = <i>Excess</i>	Mean standard sheer aft =
A.P. ...	56.10	1	56.10	56 "	56.10	1	56.10	✓	
$\frac{1}{8}$ L from A.P. ...	24.965	4	99.86	25 "	24.965	4	99.86	✓	Mean actual sheer forward = <i>Deficient</i>
$\frac{2}{8}$ L " ...	6.17	2	12.34	6.18 "	6.17	2	12.34	✓	Mean standard sheer forward =
Amidships ...	-	4	-	NIL.	-	4	-		Length of enclosed superstructure forward of amidships =
$\frac{2}{8}$ L from F.P. ...	12.34	2	24.68	12.18	12.18	2	24.36	✓	L. } <i>Tanker</i>
$\frac{1}{8}$ L " ...	49.93	4	199.72	49.6 "	49.60	4	198.40	✓	" " aft of " =
F.P. ...	112.20	1	112.20	111.875	111.87	1	111.87	✓	
Total ...			504.90				502.93	✓	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{1.97(.75 - .2156)}{18} = +.06$

If limited on account of midship superstructure, ✓

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

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>Tons per inch immersion at summer load water line</p> <p>T =</p>	<p>TABULAR FREEBOARD <small>corrected for Flush Deck (if required)</small></p> <p>Correction for coefficient</p> <p>Depth Correction</p> <p>Deduction for superstructures</p> <p>Sheer correction</p> <p>Round of Beam correction</p> <p>Correction for Thickness of Deck amidships</p> <p>Other corrections, scantlings, etc.</p>												
<p>Depth to Freeboard Deck = <u>34.07</u></p> <p>Summer freeboard = <u>6.67</u></p> <p>Moulded draught (d) = <u>27.40</u></p>	<p style="text-align: center;">Ft.</p> <p>$\Delta = 16794$</p> <p>$\Delta_{40} = 7.48$</p> <p>$\Delta_{40} = 7\frac{1}{2}$</p>	<p>$\frac{79+68}{1.36} = \frac{1.47}{1.36}$</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 50%;">+</th> <th style="width: 50%;">-</th> </tr> </thead> <tbody> <tr> <td>10.02</td> <td>-</td> </tr> <tr> <td>-</td> <td>14.16</td> </tr> <tr> <td>06</td> <td>-</td> </tr> <tr> <td>-</td> <td>08</td> </tr> <tr> <td>10.08</td> <td>14.24</td> </tr> </tbody> </table> <p style="text-align: right;">82.8</p> <p style="text-align: right;">19.6.42</p> <p style="text-align: right;">- 4.16</p>	+	-	10.02	-	-	14.16	06	-	-	08	10.08	14.24
+	-													
10.02	-													
-	14.16													
06	-													
-	08													
10.08	14.24													
<p>Deduction for Tropical freeboard and addition for</p> <p>Winter freeboard = $\frac{d}{4}$ inches = <u>6.85 = 6$\frac{3}{4}$</u></p> <p>Addition for Winter North Atlantic Freeboard (if required) = <u>6.85 + 4.61 = 11.46 = 11$\frac{1}{2}$</u></p>	<p>Deduction = $\frac{\Delta}{40T}$ inches</p>	<p>Summer Freeboard = <u>80.10</u></p>												

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

Tropical Fresh Water Line above Centre of Disc	14 1/4 ✓	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	"	7 1/2 ✓	Fresh Water	"
Tropical Line	"	"	6 3/4 ✓	Tropical	"
Winter Line	below	"	6 3/4 ✓	Winter	"
Winter North Atlantic Line	"	"	11 1/2 ✓	Winter North Atlantic	"

6-8 ✓
5-5 3/4 ✓
6-0 1/2 ✓
6-1 1/4 ✓
7-2 3/4 ✓
7-7 1/2 ✓

28/6/4 ✓

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.

Pooh. $\frac{2}{3} \times 3.60 = \frac{93.69}{2.40} = 96.09$

Bridge $\frac{2}{3} \times 3.90 = \frac{44.60}{2.60} = 47.20$

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Trade of ship Ocean going.

Names of ~~sister~~ ^{Similar} ships "DONOVANA" Newcastle report no. 99437. "NACELLA" Newcastle report no. 101245.

Builder's name and yard number Inman, Hunter & Wigham Richardson Ltd. Wallsend-on-Tyne no 1687.

Owners Anglo-Saxon Petroleum Co. Ltd.

Fee £

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