

JUN -8 1939

OSCILLA 36024
ONORA 35567
APALIA 35619

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. 36029
(For London Office only).

Amsterdam report
15 679

Ship's Name "ONDINA"	Official Number	Nationality and Port of Registry DUTCH 5-GRAVENHAGE	Gross Tonnage 16200 6341	Date of Build 1939	Port of Survey AMSTERDAM
Moulded Dimensions: Length 129.037 M Breadth 16.536 M Depth 9.449 M					Date of Survey WHILST BUILDING
Moulded displacement at moulded draught = 85 per cent. of moulded depth 13333 M³ tons					Surveyor's Signature C. H. Meuwisse
Coefficient of fineness for use with Tables .773					Particulars of Classification +100 A1 CONTEMPLATED.

Depth for Freeboard (D). Moulded depth ... 9.449 M Stringer plate ... 0.018 M Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 9.467	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $8.33(9.467 - 8.656) 30 = +203 \text{ mm}$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) 16.536 M Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = 343 mm Difference = 12 mm excess Restricted to Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) = \frac{12}{4} \times .5574 = -2 \text{ mm}$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>Equiv.</i>	27.509	27.509	22.86	✓	27.509
.. overhang ...	27.57 M		65 mm wood DECK		
R.Q.D. enclosed	✓				
.. overhang					
Bridge enclosed <i>Equiv.</i>	14.877 M	14.877	22.86	22.86	14.850
.. overhang aft	0.56 M	488	22.86		487
.. overhang forward	0.50				
F'cle enclosed	14.60 M	14.596	22.86	22.86	14.570
.. overhang	14.596				
Trunk aft	✓				
.. forward	✓				
Tonnage opening aft	✓				
.. forward	✓				
Total	57.632	57.470			57.416

Standard Height of Superstructure **2290 mm**
 " " R.Q.D. **✓**
 Deduction for complete superstructure **1067 mm**
 Percentage covered $\frac{S}{L} = 44.39$
 " " $\frac{S_1}{L} = 44.26$
 " " $\frac{E}{L} = 44.22$
 Percentage from Table, Line A. TANKER **35.22**
 (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 = **1067 × 35.22 = - 376 mm**

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P. ...	1336	1	1336	1361	1361	1	1361
$\frac{1}{2}$ L from A.P. ...	593	4	2372	604	604	4	2416
$\frac{3}{4}$ L " ...	148	2	296	157	157	2	314
Amidships ...	-	4	-	0	-	4	-
$\frac{3}{4}$ L from F.P. ...	297	2	594	297	297	2	594
$\frac{1}{2}$ L " ...	1187	4	4748	1197	1197	4	4788
F.P. ...	2671	1	2671	2753	2753	1	2753
Total			12017				12226

Mean actual sheer aft = **Excess**
 Mean standard sheer aft = **Excess**
 Mean actual sheer forward = **Excess**
 Mean standard sheer forward = **Excess**
 Length of enclosed superstructure forward of amidships = **1**
 " " aft of " = **1**
 } **Tanked**

DISPLACEMENT AT MOULDED DRAUGHT **7.70 M**: **13057 TONS**
 " " " " " " " " **PER INCH**: **47.66 TONS**
 " " " " " " " " **8.085 M**: **13652 TONS**
 " " " " " " " " **PER INCH**: **48.13 TONS**
 " " " " " " " " **7.475 M**: **12488 TONS**
 " " " " " " " " **PER INCH**: **47.22 TONS**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75 - S}{2L} \right) = \frac{209}{18} \left(\frac{75 - 222}{528} \right) = -6 \text{ mm}$
 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 = 9.467 Summer freeboard = 1.690 Moulded draught (d) = 7.777 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4} \text{ mm} = 162 \text{ mm} = 16 \text{ cms}$ Addition for Winter North Atlantic Freeboard (if required) = 162 + 106 = 268 mm = 27 cms	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 13051$ Tons per inch immersion at summer load water line $T = 47.65$ Deduction = $\frac{\Delta}{40 T} \text{ inches} = 6.85 = 174 \text{ mm}$ = 17 cms	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{773 + 68}{1.36} = \frac{1.453}{1.36}$ <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td>203</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures</td> <td>-</td> <td>376</td> </tr> <tr> <td>Sheer correction</td> <td>-</td> <td>6</td> </tr> <tr> <td>Round of Beam correction</td> <td>-</td> <td>2</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>-</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td>-</td> <td>-</td> </tr> <tr> <td>Total</td> <td>203</td> <td>384</td> </tr> </table> Summer Freeboard = 1686		+	-	Depth Correction	203	-	Deduction for superstructures	-	376	Sheer correction	-	6	Round of Beam correction	-	2	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-	Total	203	384
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc	...	33 cms
Fresh Water Line	"	17 "
Tropical Line	"	16 "
Winter Line	below	16 "
Winter North Atlantic Line	"	27 "

Tropical Fresh Water Freeboard	...	136 "
Fresh Water	"	152 "
Tropical	"	153 "
Winter	"	185 "
Winter North Atlantic	"	196 "

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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.

Trade of ship OCEAN TRADE.

Names of sister ships "OPALIA"; "OSCILLA" (C. V. D. GIESSEN & ZONEN'S SCHEEPSNERVEN YARD N° 657); "OCANA"; "OPHULA" & "ONDBA"

Builder's name and yard number NEDERLANDSCHE DOK M.Y. N.V. YARD N° 71.

Owners PETROLEUM M.Y. "LA CORONA" DEN HAAG. HOLLAND.

Fee fl. 204,-



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Foundation