

10 OCT 1949

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(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

N° 31688

Ship's Name M.V. MITRA	Official Number	Nationality and Port of Registry Netherlands 's Gravenhage	Gross Tonnage 8263 8100	Date of Build 1949	Port of Survey Schiedam
Moulded Dimensions: Length 140.206 Breadth 17.980 Depth 10.363 m/m To centre of Budderstock 140.511 m/m					Date of Survey Building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 14620 ^{10.3} tons					Surveyor's Signature H. P. Jonker
Coefficient of fineness for use with Tables .792 ✓					Particulars of Classification 7-100 A1 (class contemplating)

DEPTH FOR FREEBOARD (D). m/m Moulded depth 10363 Stringer plate 21 1/2 Sheathing on exposed deck non $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 10385	DEPTH CORRECTION. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $8.33(10385 - 9368) 30 = + 254 \text{ m/m}$ (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) 17980 m/m Standard Round of Beam = $\frac{B \times 12}{50} =$ 360 Ship's Round of Beam = 360 m/m Difference N.L. Restricted to Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L}\right) =$ N.L. ✓
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DEDUCTION FOR SUPERSTRUCTURES.					Standard Height of Superstructure 2290 -/-	
Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	"	R.Q.D.
Poop enclosed Equiv. ...	28644	29.42	2440	29.42	✓	
" overhang ...	29.42					
R.Q.D. enclosed ...						
" overhang ...	14.742					
Bridge enclosed Equiv. ...	13944	14.742	2286	14.718	✓	
" overhang aft ...	3013	2.260		2.256	✓	
" overhang forward ...						
F'cle enclosed ...	14632	14.532	2286	14.608	✓	
" overhang ...						
Trunk aft ...						
" forward ...						
Tonnage opening aft ...						
" " forward ...						
Total ...	61.808	61.055		61.003	✓	

SHEER CORRECTION.							
Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P. ...	1425	1	1425	1423	1423	1	1423
1/8 L from A.P. ...	633	4	2532	632	632	4	2528
3/8 L " ...	158	2	316	156	156	2	312
Amidships ...		4		0		4	
5/8 L from F.P. ...	316	2	632	311	311	2	622
7/8 L " ...	1266	4	5064	1266	1266	4	5064
F.P. ...	2849	1	2849	2846	2846	1	2846
Total ...			12818				12795

Mean actual sheer aft =
Mean standard sheer aft = } **Deficient**

Mean actual sheer forward =
Mean standard sheer forward = }

Length of enclosed superstructure forward of amidships =
L

" " aft of " = } **Tanker.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{23}{18} \left(.75 - \frac{2200}{5300} \right) = + 1 \text{ m/m}$

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 10385 Summer freeboard = 2030 Moulded draught (d) = 8355 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{48} \text{ inches} = 174 \text{ m/m} = 17 \text{ cm}$ Addition for Winter North Atlantic Freeboard (if required) = 174 + 115 = 289 m/m = 29 cm	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 16032.29$ Tons per inch immersion at summer load water line $T = 54 - 56.98$ Deduction = $\frac{\Delta}{40 T} \text{ inches} = 7.38 = 187 \text{ m/m} = 19 \text{ cm}$	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{792 + 68}{1.36} = 1.472 / 1.36$ <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td>254</td> <td></td> </tr> <tr> <td>Deduction for superstructures</td> <td></td> <td>367</td> </tr> <tr> <td>Sheer correction</td> <td></td> <td></td> </tr> <tr> <td>Round of Beam correction</td> <td></td> <td></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></td> <td>255</td> <td>367</td> </tr> </table> Summer Freeboard = 2030		+	-	Depth Correction	254		Deduction for superstructures		367	Sheer correction			Round of Beam correction			Correction for Thickness of Deck amidships			Other corrections, scantlings, etc.				255	367
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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	36
Fresh Water Line	15
Tropical Line	17
Winter Line below	17
Winter North Atlantic Line	23

Tropical Fresh Water Freeboard	203
Fresh Water	367
Tropical	186
Winter	230
Winter North Atlantic	232

Mitra.

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.

Extreme draught	Shoulded draught	Displacement in tons incl. shell	Tons imm (1016) per inch
24-0 ⁷ / ₈ = 8251 ^m / _m	8229 ^m / _m	16548	56.9
24-6 ⁷ / ₈ = 8404 ^m / _m	8382 ^m / _m	16889	57.-
28-0 ⁷ / ₈ = 8556 ^m / _m	8534 ^m / _m	17231	57.1

153

341

0.1

$$\begin{aligned} \text{Poop at side} &= 28.674 \\ \frac{2}{3} \times 1120 &= .747 \\ \hline &29.421 \end{aligned}$$

$$\begin{aligned} \text{Bridge at side} &= 13.947 \\ \frac{2}{3} \times 1193 &= .795 \\ \hline &14.742 \end{aligned}$$

$$\begin{array}{r} 8355 \\ 8229 \\ \hline 126 \\ 153 \end{array}$$

x 341 =

$$\begin{array}{r} 281 \\ 16548 \\ \hline 16829 \end{array}$$

$$\begin{array}{r} 126 \\ 153 \end{array}$$

x .1 =

$$\begin{array}{r} .08 \\ 56.90 \\ \hline 56.98 \end{array}$$

35961

Trade of ship Ocean Trade (Tanker)
 Names of sister ships Similar to M.V. "Corona" Wilton-Tyenoord yard N° 665
 Builder's name and yard number Wilton-Tyenoord N.V. yard N° 720
 Owners N.V. Petroleum Maatschappij "La Corona" (Te's Gravenhage)
 Fee 500.-



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