

1966 LOAD LINE CONVENTION

Rpt. C.11 (Comp.)

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

(COMPUTATION FOR ~~STEAMER, SAILING SHIP, TANKER~~)

For LONDON OFFICE ONLY

Received
 Index No.
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 Owners C11

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
"GIUSEPPE VERDI"	260	RUSSIAN ODESSA		12/1964

Port of Survey LONDON H. O.Date of Survey 11/5 - 1966Surveyor's Signature Fully J. J. J.Particulars of Classification + 10041 OIL TANKER
'ICE' CLASS 3

Moulded Dimensions: Length 215.233 Breadth 31.000 Depth 15.527 (850 = 13.198)
 Freeboard Length 215.233 (TO & OF RUDDER STOCK)
 Moulded displacement at moulded draught = 85 per cent. of moulded depth
 (excluding bossing) 72324 M. tons
 Coefficient of fineness for use with Tables .801

DEPTH FOR FREEBOARD (D).

Moulded depth ... 15.527
 Stringer plate 33.5034
 Wood Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$
 Depth for Freeboard (D) = 15.561

4/15 = 14.349 DEPTH CORRECTION.

- (a) Where D is greater than Table depth
 (D-Table depth) R = (15.561 - 14.349) 250 = +303 4/4
 (b) Where D is less than Table depth (if allowed)
 (Table depth-D) R = 1212

If restricted by superstructures

ROUND OF BEAM CORRECTION.

Moulded Breadth (B) ...
 Standard Round of Beam = $\frac{B \times 12}{50} =$
 Ship's Round of Beam ...
 Difference ...
 Restricted to ...
 Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S)	Height	Height Correction	Effective Length (E)
Poop enclosed <u>EQUIV.</u>	<u>46.636</u>	<u>3570/3210</u>			<u>46.636</u>
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed <u>EQUIV.</u>	<u>15.130</u>	<u>3000</u>			<u>14.832</u>
" overhang aft ...					
" overhang forward ...					
F'cle enclosed <u>EQUIV.</u>	<u>28.628</u>	<u>2717/4258</u>			<u>28.628</u>
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	<u>90.394</u>				<u>90.096</u>

Standard Height of Superstructure 2.300 M" " R.Q.D. 1070 4/4Deduction for complete superstructure 42.00

Percentage covered $\frac{S}{L} =$
 $\frac{S_1}{L} =$
 $\frac{S_2}{L} =$
 $\frac{E}{L} =$

Percentage from Table, Line A TYPE A 32.86
 (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 = 1070 x .3286 = -352 4/4

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	M	Product
A.P. ...	2044	1	2044	518	518	1	518
1/4 L from A.P. ...	907	3A	2721	78	78	3A	234
2L "	229	32	687	0	0	32	0
Amidships ...	0	2A	0	0	0	2A	0
3/8 L from F.P. ...	458	32	1394	0	0	32	0
1/4 L "	1815	3A	5445	115	115	3A	345
F.P. ...	4087	1	4087	832	832	1	832
Total ...			16358				1929

Correction = $\frac{\text{Difference between sums of products}}{16} \left(.75 - \frac{S}{2L} \right) = \frac{(16358 - 1929 - 153)}{16} = +405 4/4$
 If limited on account of midship superstructure.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 15.561
 Summer freeboard = 3.352
 Moulded draught (d) = 12.209
 Keel allowance =
 Extreme draught =
 Deduction for Tropical freeboard and addition for = 254 4/4

Winter freeboard = $\frac{d}{48}$ inches = 254 4/4Addition for Winter North Atlantic Freeboard (if required) = INAPPLICABLE

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$ 66710

Tons per inch immersion at summer load water line

 $T =$ 59.15Deduction = $\frac{\Delta}{40 T}$ inches282 4/4

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient .801 + .68 = 1.481 1/36

	+	-
Depth Correction	<u>303</u>	<u>-</u>
Deduction for superstructures	<u>-</u>	<u>352</u>
Sheer correction	<u>405</u>	<u>-</u>
Round of Beam correction	<u>-</u>	<u>-</u>
Correction for Thickness of Deck amidships	<u>-</u>	<u>-</u>
Other corrections, scantlings, etc.	<u>-</u>	<u>-</u>
	<u>708</u>	<u>352</u>
Summer Freeboard =	<u>3352</u>	<u>4/4</u>

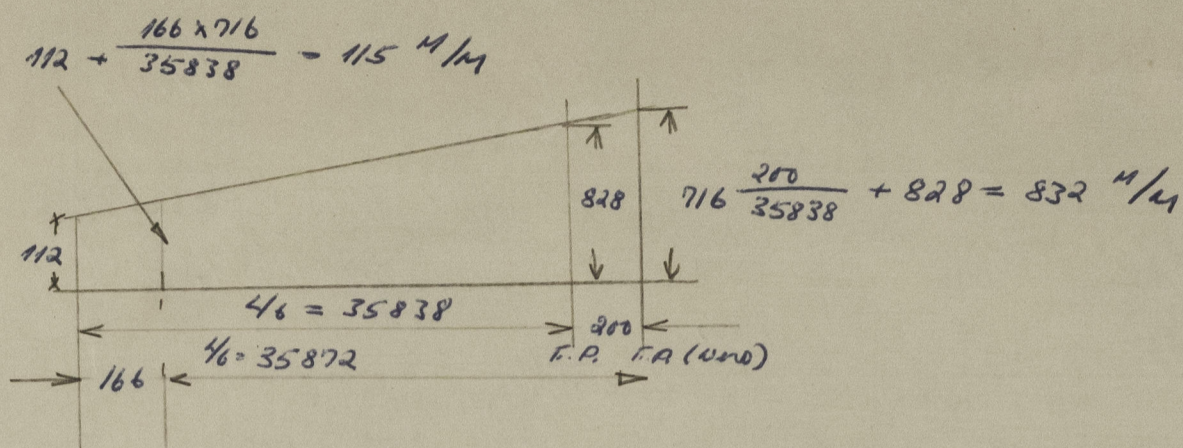
SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Upper Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc 536 4/4
 Fresh Water Line " " 282 4/4
 Tropical Line " " 254 4/4
 Winter Line below " " 254 4/4
 Winter North Atlantic Line " " INAPPLICABLE

Tropical Fresh Water Freeboard 3352 4/4
 Fresh Water " 2816 4/4
 Tropical " 3070 4/4
 Winter " 3098 4/4
 Winter North Atlantic " 3606 4/4
INAPPLICABLE

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.

SHEER

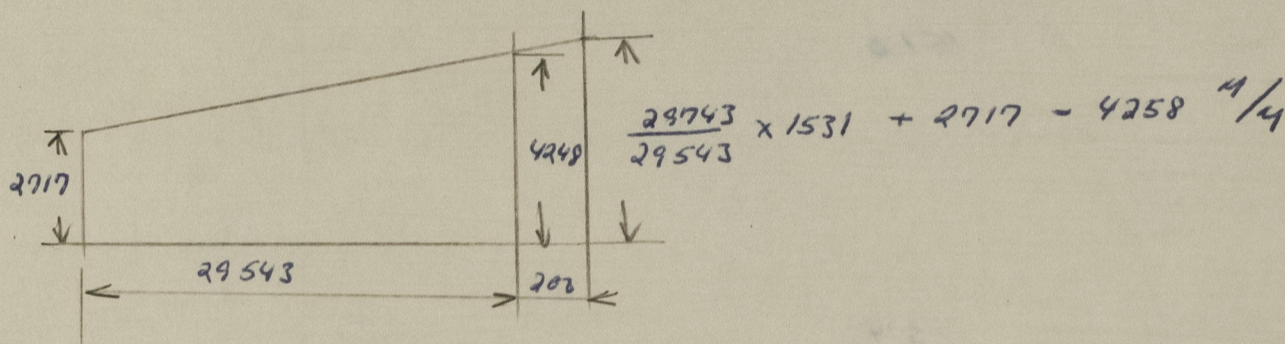


Freeboard length

$$L_{pp} \text{ at } .850 = 215.033 + .200 = 215.233 \text{ m}$$

$$\text{length of w.l. at } .850 = 215.233 \text{ m} + .010 \text{ m} = 222.233 \text{ m} (.961 = 213 \text{ m})$$

Fore'sle



Dow height

$$\begin{array}{rcl}
 \text{Reg d} & - & 20.7 \text{ feet} \\
 \text{Actual} & - & 3352 \text{ m} \\
 & & 832 \text{ m} \\
 & & 4258 \text{ m} \\
 \hline
 & & 8442 \text{ m} \sim 27.6 \text{ feet}
 \end{array}$$

Trade of Ship.....

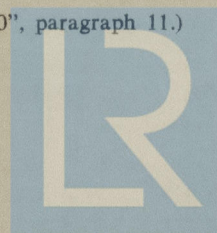
Names of sister ships.....

Builder's name and yard number.....

Owners.....

Fee £.....

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950", paragraph 11.)



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