

SISTER VESSEL
"LAURA" 4073

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. 40178
(For London Office only).

20 MAY 1949

Ship's Name <u>"Lidia"</u> <u>ex L.S.T. 198</u>	Official Number	Nationality and Port of Registry <u>Venezuelan</u> <u>Maracaibo</u> <u>(intended)</u>	Gross Tonnage	Date of Build <u>1943</u>	Port of Survey <u>New York</u>
Moulded Dimensions: Length <u>309.0</u> Breadth <u>50.0</u> Depth <u>25.02</u>					Date of Survey <u>27th Jan. 1949</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth: <u>8100</u> tons					Surveyor's Signature <u>J. Todd</u>
Coefficient of fineness for use with Tables <u>.863</u>					Particulars of Classification <u>A1</u> <u>with freeboard.</u> <u>FOR SERVICE BETWEEN CURACAO AND MARACAIBO GULF AND LAKES</u>

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth <u>25.02</u>	(a) Where D is greater than Table depth (D—Table depth) R= <u>(25.05 - 20.60) 2.377 = +10.558</u>	Moulded Breadth (B) <u>50.0</u>
Stringer plate <u>3/8</u> <u>.03</u>	(b) Where D is less than Table depth (if allowed) (Table depth—D) R=	Standard Round of Beam = $\frac{B \times 12}{50} =$ <u>12.00</u>
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = <u>nil.</u>
Depth for Freeboard (D) = <u>25.05</u>		Difference <u>- 12.00</u>
		Restricted to
		Correction = $\frac{\text{Diff}^o}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{12.00}{4} = +3.00$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

Standard Height of Superstructure _____
" " R.Q.D. _____
Deduction for complete superstructure _____
Percentage covered $\frac{S}{L} =$ _____
" " $\frac{S_1}{L} =$ _____
" " $\frac{E}{L} =$ _____
Percentage from Table, Line A.
(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 = Nil.

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<u>40.90</u>	1		<u>40.90</u>	<u>34.75</u>	<u>40.90</u>	1		<u>40.90</u>
1/2 L from A.P.	<u>18.20</u>	4		<u>72.80</u>	<u>24.88</u>	<u>18.20</u>	4		<u>72.80</u>
1/2 L "	<u>4.50</u>	2		<u>9.00</u>	<u>12.75</u>	<u>4.50</u>	2		<u>9.00</u>
Amidships	<u>-</u>	4		<u>-</u>	<u>-</u>	<u>-</u>	4		<u>-</u>
1/2 L from F.P.	<u>9.00</u>	2		<u>18.00</u>	<u>-12.13</u>	<u>-12.13</u>	2		<u>-24.26</u>
1/2 L "	<u>36.40</u>	4		<u>145.60</u>	<u>-12.63</u>	<u>-12.63</u>	4		<u>-50.52</u>
F.P.	<u>81.80</u>	1		<u>81.80</u>	<u>58.13</u>	<u>58.13</u>	1		<u>58.13</u>
Total				<u>368.10</u>					<u>+106.05</u>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{262.05}{18} \times .75 = +10.92$
If limited on account of midship superstructure. _____
If limited to maximum allowance of 1 1/2 ins. per 100 ft. _____

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient. $\frac{45.65 + 4.63}{1.36} = \frac{50.28}{1.36} = 37.04$
Depth to Freeboard Deck = <u>25.05</u>	$\Delta =$	Depth Correction <u>10.58</u>
Summer freeboard = <u>9.54</u>	Tons per inch immersion at summer load water line	Deduction for superstructures <u>-</u>
Moulded draught (d) = <u>15.51</u>	T =	Sheer correction <u>10.92</u>
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>4"</u>	Deduction = $\frac{\Delta}{40T}$ inches = <u>4 1/4"</u>	Round of Beam correction <u>3.00</u>
Addition for Winter North Atlantic Freeboard (if required) = <u>Not assigned.</u>		Correction for Thickness of Deck amidships <u>-</u>
		Other corrections, scantlings, etc. corresponding to a mid. draught (summer) of 15'-6" <u>32.94</u>
		Summer Freeboard = <u>114.50</u>

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: <u>2021'</u>	Tropical Fresh Water Freeboard <u>8'-10 1/4"</u>
Tropical Fresh Water Line above Centre of Disc <u>8 1/4"</u>	Fresh Water <u>9'-3 1/4"</u>
Fresh Water Line " " <u>4 1/4"</u>	Tropical <u>9'-5 1/4"</u>
Tropical Line " " <u>4"</u>	Winter <u>9'-5 1/4"</u>
Winter Line below " " <u>-</u>	Winter North Atlantic <u>-</u>
Winter North Atlantic Line " " <u>-</u>	

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 *For service between Curacao and Maracaibo Gulf and Lakes.*
Names of sister ships *"Leona", "Lucia", "Laura", "Linda", "Luisa"*
Builder's name and yard number *Chicago Bridge & Ironworks.*
Owners *Shell Caribbean Petroleum Co.*
Fee *\$ 100.-*

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