

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. **43076**
(For London Office only.)

21 JUL 1951

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
"PRESIDENTE PERON"	✓	ARGENTINE. BUENOS AIRES.		1951.

Port of Survey BirkenheadDate of Survey Whilst BuildingSurveyor's Signature L. D. Phillip
Harry S. WestonParticulars of Classification + 100A
Carrying Petroleum in Bulk
with Long framing at Bottom & Stk.

Moulded Dimensions: Length 531.00' Breadth 71.00' Depth 38'-11 $\frac{15}{16}$ "
To & of Rudder Stock on S.O.L.W.L.
 Moulded displacement at moulded draught = 85 per cent. of moulded depth 27470 tons
 Coefficient of fineness for use with Tables .770

DEPTH FOR FREEBOARD (D)
 Moulded depth ... 38'-11 $\frac{15}{16}$ " 38.99
 Stringer plate ... 1.08" .09
 Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$ ✓
 Depth for Freeboard (D) = 39.08

DEPTH CORRECTION.
 (a) Where D is greater than Table depth
 (D-Table depth) R =
(39.08-35.40)3 = + 11.04 ✓
 (b) Where D is less than Table depth (if allowed)
 (Table depth-D) R =
3.68
 If restricted by superstructures

ROUND OF BEAM CORRECTION.
 Moulded Breadth (B) 71.00'
 Standard Round of Beam = $\frac{B \times 12}{50} =$ 17.04
 Ship's Round of Beam 17.00"
 Difference .04
 Restricted to
 Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$.04 (1 - .4567) = + .01 ✓
.5433

DEDUCTION FOR SUPERSTRUCTURES.

See Sketch
See Sketch
See Sketch

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <u>Equiv.</u>	<u>125.33</u>	<u>125.33</u>	<u>8.0</u>	✓	<u>125.33</u>
" overhang ...					
R.Q.D. enclosed ...					
" overhang <u>Equiv.</u>	<u>43.67</u>	<u>43.67</u>	<u>8.0</u>	✓	<u>43.67</u>
Bridge enclosed	<u>3.00</u>	<u>2.25</u>			<u>2.25</u>
" overhang aft ...					
" overhang forward ...					
Fore enclosed	<u>71.25</u>	<u>71.25</u>	<u>8.0</u>	✓	<u>71.25</u>
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	<u>243.25</u>	<u>242.50</u>			<u>242.50</u>

Standard Height of Superstructure 7.50'
 " " R.Q.D. ✓
 Deduction for complete superstructure 42.00"

Percentage covered $\frac{S}{L} =$ 45.81
 $\frac{S_1}{L} =$ 45.67 ✓
 $\frac{E}{L} =$ 36.67 ✓

Percentage from Table, Line A. TANKER
 (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 = 42.00 × .3667 = - 15.40" ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	<u>63.10</u>	1		<u>63.10</u>	<u>63.06</u>	<u>63.10</u>	1		<u>63.10</u>
$\frac{1}{8}L$ from A.P. ...	<u>28.08</u>	4		<u>112.32</u>	<u>28.31</u>	<u>28.08</u>	4		<u>112.32</u>
$\frac{2}{8}L$ " ...	<u>6.94</u>	2		<u>13.88</u>	<u>7.19</u>	<u>6.94</u>	2		<u>13.88</u>
Amidships ...	✓	4		✓	✓	✓	4		
$\frac{3}{8}L$ from F.P. ...	<u>13.88</u>	2		<u>27.76</u>	<u>13.81</u>	<u>13.81</u>	2		<u>27.62</u>
$\frac{4}{8}L$ " ...	<u>56.16</u>	4		<u>224.64</u>	<u>55.31</u>	<u>55.31</u>	4		<u>221.24</u>
F.P. ...	<u>126.20</u>	1		<u>126.20</u>	<u>125.94</u>	<u>125.94</u>	1		<u>125.94</u>
Total ...				<u>567.90</u>					<u>564.10</u>

Correction = $\frac{\text{Difference between sums of products}}{18} =$ 3.80
 If limited on account of midship superstructure. ✓

Mean actual sheer aft = Excess!
 Mean standard sheer aft =
 Mean actual sheer forward = Deficient.
 Mean standard sheer forward =
 Length of enclosed superstructure forward of amidships =
 " " aft of " = TANKER

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 39.08
 Summer freeboard = 8.04
 Moulded draught (d) = 31.04

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 7.76 = 7 $\frac{3}{4}$ "

Addition for Winter North Atlantic Freeboard (if required) = 7.76 + 5.31 = 13.07 = 13" ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$ 25619

Tons per inch immersion at summer load water line

$T =$ 76.89

Deduction = $\frac{\Delta}{40 T}$ inches = 8.33 = 8 $\frac{1}{4}$ "

EXT. = 32.00 - 264.25 = 77.32

T.P.I. = 31.00 - 255.04 = 76.83

TABULAR FREEBOARD

Correction for coefficient $\frac{.77 + .68}{1.36} = \frac{1.45}{1.36}$

	+	-
Depth Correction	<u>11.04</u>	✓
Deduction for superstructures	<u>15.40</u>	✓
Sheer correction	<u>.11</u>	✓
Round of Beam correction	<u>.01</u>	✓
Correction for Thickness of Deck amidships	✓	✓
Other corrections, scantlings, etc.	✓	✓
	<u>11.16</u>	<u>15.40</u>

Summer Freeboard = 96.54

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

Tropical Fresh Water Line above Centre of Disc	<u>16"</u>
Fresh Water Line	<u>8$\frac{1}{4}$"</u>
Tropical Line	<u>7$\frac{3}{4}$"</u>
Winter Line below	<u>7$\frac{3}{4}$"</u>
Winter North Atlantic Line	<u>13"</u>

Tropical Fresh Water Freeboard	<u>8' - 0$\frac{1}{2}$"</u>
Fresh Water	<u>6' - 8$\frac{1}{2}$"</u>
Tropical	<u>7' - 4$\frac{1}{4}$"</u>
Winter	<u>7' - 4$\frac{3}{4}$"</u>
Winter North Atlantic	<u>8' - 8$\frac{1}{4}$"</u>
	<u>9' - 1$\frac{1}{2}$"</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.

Poop Bhd. Length at side = 122.0'
 $\frac{2}{3} \times 5 = 3.33$
 125.33 = Equiv Length.

Bridge Deck. Length at side = 38.50'
 $\frac{2}{3} \times 7.75 = 5.17$
 43.67 = Equiv Length.
 3.00 Overhang aft.

✓ No allowance for overhang for'd

Sheer for'd

ACTUAL.

125.94	1	125.94
55.31	3	165.93
13.81	3	41.43
-	1	-
		<u>333.30</u>

STANDARD

126.20	1	126.20
56.16	3	168.48
13.88	3	41.64
-	1	-
		<u>336.32</u>

Sheer aft.

ACTUAL

63.06	1	63.06
28.31	3	84.93
7.19	3	21.57
-	1	-
		<u>169.56</u>

STANDARD

63.10	1	63.10
28.08	3	84.24
6.94	3	20.82
-	1	-
		<u>168.16</u>

Trade of ship International

Names of sister ships Messrs Cammell Laird's Yard Nos 1203, 4 & 6

Builder's name and yard number Messrs Cammell Laird's Yard N° 1205.

Owners Messrs Facimientos Petroliferos. Lucalis.

Fee £ 36



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Foundation