

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name LAVERO	Official Number -	Nationality and Port of Registry Italian	Gross Tonnage 7865	Date of Build 1938	Port of Survey Baltimore, Md.
Moulded Dimensions: Length 460.7 Breadth 59 Depth 34 <i>to centre freeboard stake</i>					Date of Survey 28th September, 1944 and subsequent dates
Moulded displacement at moulded draught = 85 per cent. of moulded depth at 28.9' = 18110 metric tons 17825 tons					Surveyor's Signature <i>J. Buchanan</i>
Coefficient of fineness for use with Tables T/L at 27' = 56.23 tons T/L at 28' = 56.42 tons .795					Particulars of Classification 100 A1 Contemplated Carrying Petroleum in Bulk.

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth ...	34.00 ✓	(a) Where D is greater than Table depth (D - Table depth) R = (34.06 - 30.71) × 3 = + 10.05		Moulded Breadth (B)	59.00 ✓
Stringer plate78 ✓	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	14.16 ✓
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures		Ship's Round of Beam	13.50 ✓
Depth for Freeboard (D) =	34.06 ✓			Difference	.66 ✓
				Restricted to	.66 × 59 = 38.94
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	= 4 = +10 ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	93.87 ✓	93.70	7.38	-	93.70	Standard Height of Superstructure 7.5' ✓
" overhang ...	-	-	+8			" " R.Q.D. 42' ✓
R.Q.D. enclosed ...	-	-	-			Deduction for complete superstructure
" overhang ...	-	-	-			Percentage covered $\frac{S}{L} =$ 40.91
Bridge enclosed ...	47.0	47.00	7.38	-	47.00	" " $\frac{S_1}{L} =$ 41.00 ✓
" overhang aft ...	-	-	+8			" " $\frac{E}{L} =$ 40.25
" overhang forward	-	-	-			Percentage from Table, line A. tanker 32.00 ✓
Fore enclosed ...	48.16 ✓	48.16	7.38	-	48.16	(corrected for absence of forecastle (if required))
" overhang ...	-	-	+8			Percentage from Table, Line B.
Trunk aft ...	-	-	-			(corrected for absence of forecastle (if required))
" forward ...	-	-	-			Interpolation for bridge less than 2L (if required)
Tonnage opening aft ...	-	-	-			Deduction = 42 × 32 = - 13.44 ✓
" " forward	-	-	-			
Total ...	188.1686	188.86			188.86	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P. ...	56.00 ✓	1	56.07	55.75	55.75	1	55.75	Mean actual sheer aft =
1/4 L from A.P. ...	24.97 ✓	4	99.80	25.60	25.60	4	102.40	Mean actual sheer forward =
3/4 L " ...	6.16 ✓	2	12.34	7.60	7.60	2	15.20	Mean standard sheer aft =
Amidships ...	-	4	-	-	-	4	-	Mean standard sheer forward =
3/4 L from F.P. ...	12.32 ✓	2	24.68	13.10	13.10	2	26.20	Length of enclosed superstructure forward of amidships =
1/4 L " ...	49.84 ✓	4	199.60	50.10	50.10	4	200.40	" " aft of " =
F.P. ...	112.00 ✓	1	112.14	120.00	120.00	1	120.00	
Total ...			504.63				519.95	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{15.32}{18} \left(\frac{75-.205}{545} \right) = -.46$ ✓

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 corrected for Flush Deck (if required)	77.88 ✓
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{794+.68}{1.36} = \frac{1.474}{1.36}$	84.41 ✓
Depth to Freeboard Deck = 34.06 ✓	Δ =	Depth Correction ...	10.05 ✓
Summer freeboard = 6.73 ✓	Tons per inch immersion at summer load water line	Deduction for superstructures ...	- 13.44 ✓
Moulded draught (d) = 27.33 ✓	T =	Sheer correction ...	- .46 ✓
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.83 ✓	Deduction = $\frac{\Delta}{40 T}$ inches = 190 ✓	Round of Beam correction ...	10 ✓
Addition for Winter North Atlantic Freeboard (if required) = 6.83 + 4.61 = 11.44 ✓		Correction for Thickness of Deck amidships ...	-
		Other corrections, scantlings, etc. ...	-
		Summer Freeboard = 80.66 ✓	80.66 ✓

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ Steel, Deck:

Tropical Fresh Water Line above Centre of Disc ...	364 ✓	Tropical Fresh Water Freeboard ...	2053 ✓
Fresh Water Line " " ...	190 ✓	Fresh Water " " ...	1689 ✓
Tropical Line " " ...	174 ✓	Tropical " " ...	1863 ✓
Winter Line below " " ...	174 ✓	Winter " " ...	1879 ✓
Winter North Atlantic Line " " ...	290 ✓	Winter " " ...	2227 ✓
		Winter North Atlantic " " ...	2343 ✓

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.

Names of sister ships.

Owners: A. Lauro - Managers Anglo Saxon Oil Co.

Exps. 12.00

Lloyd's Register
Foundation