

Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. 35187
(For London Office only).

DEC -8 1938

GRK. REPORT N° 20664

Ship's Name SAN ELISEO.	Official Number 167176	Nationality and Port of Registry BRITISH LONDON.	Gross Tonnage APPROX 8041.54 8000	Date of Build NOW BUILDING 1938	Port of Survey GREENOCK
Moulded Dimensions: Length 460 Breadth 61 Depth 33.25					Date of Survey WHILE BUILDING
Moulded displacement at moulded draught = 85 per cent. of moulded depth 17650 tons					Surveyor's Signature <i>Kenneth B. Ingle</i>
Coefficient of fineness for use with Tables .779					Particulars of Classification CARRYING PETROLEUM IN BULK (CONTEMPLATED) LONGITUDINAL FRAMING. AT BOTTOM & AT DECK

Depth for Freeboard (D). Moulded depth ... 33.25 Stringer plate75"06 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = \text{Nil.}$ Depth for Freeboard (D) = 33.31	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = $(33.31 - 30.67) 3 = + 7.92"$ (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) 61.0' Standard Round of Beam = $\frac{B \times 12}{50} = 14.64$ Ship's Round of Beam = 15 Difference .36 excess Restricted to Correction = $\frac{\text{Diff}^*}{4} \times (1 - \frac{S_1}{L}) = \frac{.36}{4} \times .5894 = -.05"$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	97.3	97.25	7'-6"		97.25
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...	46.56	46.56	7'-6"		46.56
Bridge enclosed ...	47.5				
„ overhang aft ...					
„ overhang forward ...	45.08	45.08	7'-6"		45.08
Fore enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...	188.89	188.89			188.89

Standard Height of Superstructure **7.5'**

„ „ R.Q.D. **✓**

Deduction for complete superstructure **42.00"**

Percentage covered $\frac{S}{L} = 41.06 \checkmark$

„ „ $\frac{S_1}{L} = 41.06 \checkmark$

„ „ $\frac{E}{L} = 41.06 \checkmark$

Percentage from Table, Line A. TANKER **32.06**
(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 = $42 \times .3206 = -13.46 \checkmark$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	56.00	1		56.00	60	60.00	1		60.00
1/4 L from A.P. ...	24.92	4		99.68	26.75	26.75	4		107.00
3/4 L „ ...	6.16	2		12.32	6.5	6.50	2		13.00
Amidships ...		4			0		4		
3/4 L from F.P. ...	12.32	2		24.64	12.75	12.75	2		25.50
1/4 L „ ...	49.84	4		199.36	50.5	50.50	4		202.00
F.P. ...	112.00	1		112.00	114	114.00	1		114.00
Total ...				504.00					521.50

Mean actual sheer aft = **Excess**
 Mean standard sheer aft

Mean actual sheer forward = **Excess**
 Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **✓**
 „ „ aft of „ = **✓**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{17.50}{18} \left(.75 - \frac{.2053}{.5447} \right) = -.53"$
 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 = 33.31 Summer freeboard = 6.44 Moulded draught (d) = 26.87 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.72 = 6 3/4 Addition for Winter North Atlantic Freeboard (if required) = 6.72 + 4.60 = 11.32 = 11 1/4	Deduction for Fresh Water. Displacement in salt water at summer load water line 26 - 16095 $\Delta = 27 - 16783$ Tons per inch immersion at summer load water line 26 - 57.25 $T = 27 - 57.75$ Deduction = $\frac{\Delta}{40 T}$ inches = $\frac{16838}{40 \times 57.79} = 7.28 = 7 1/4$	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.779 + .68}{1.36} = 1.459$ Depth Correction ... 7.92 Deduction for superstructures ... 13.46 Sheer correction53 Round of Beam correction05 Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... Summer Freeboard = 77.24	77.70 83.36 52.8 5-12-38
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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	14
Fresh Water Line	7 1/4
Tropical Line	6 3/4
Winter Line below	6 3/4
Winter North Atlantic Line	11 1/4

Tropical Fresh Water Freeboard	5' 5 1/4"
Fresh Water	5' 3 1/4"
Tropical	5' 10"
Winter	5' 10 1/2"
Winter North Atlantic	7' 0"
	7' 4 1/2"

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San Eliseo

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.

Bridge $44.67 + (\frac{2}{3} \times 2.83) = 46.56'$ equivalent

Trade of ship INTERNATIONAL.

Names of sister ships 'SAN CIRILO'

Builder's name and yard number LITHGOWS LTD No 916.

Owners EAGLE OIL & SHIPPING Co. LTD

Fee £ 18 : 0 : 0

TO BE RENDERED WITH
FIRST ENTRY



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Foundation