

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

2616787

Ship's Name "THELICONUS" EX "PALO DURO"	Official Number	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage 10669 MUSTALI 28/5/48	Date of Build 1945	Port of Survey LIVERPOOL
Moulded Dimensions: Length 503.00' Breadth 68.00' Depth 39.25'					Date of Survey June & July 1947
Moulded displacement at moulded draught = 85 per cent. of moulded depth 24,350 tons					Surveyor's Signature <i>Kenneth G. Murray</i>
Coefficient of fineness for use with Tables .747					Particulars of Classification <i>Class contemplated</i>

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 39.25	(a) Where D is greater than Table depth (D—Table depth) R = (39.33—33.53) × 3.00 = +17.40"	Moulded Breadth (B) 68' = 68.00
Stringer plate08	(b) Where D is less than Table depth (if allowed) (Table depth—D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50}$ = 16.32
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures ✓	Ship's Round of Beam SEE SKETCH = 15.81"
Depth for Freeboard (D) = 39.33		Difference -.51
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right)$ = $\frac{.51}{4} \times .5982 = +.08"$

DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	110.42	110.42	8'-0"	✓	110.42
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed	38.67	38.67	8'-0"	✓	38.67
„ overhang aft					
„ overhang forward					
F'cle enclosed	52.62	52.62	10'-0"	✓	52.62
„ overhang75	.38			.38
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	202.46	202.09			202.09

Standard Height of Superstructure 7.5	
„ „ R.Q.D. ✓	
Deduction for complete superstructure 42.00	
Percentage covered $\frac{S}{L} =$ 40.25	
„ „ $\frac{S_1}{L} =$ 40.18	
„ „ $\frac{E}{L} =$ 31.18	
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 × .3118 = 13.10	

SHEER CORRECTION.							
Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S
A.P.	60.30	1	60.30	16.00	16.00	1	16.00
$\frac{1}{2}$ L from A.P.	26.835	4	107.34	2.25	2.25	4	9.00
$\frac{3}{4}$ L „	6.63	2	13.26	-	-	2	-
Amidships	-	4	-	-	-	4	-
$\frac{3}{4}$ L from F.P.	13.27	2	26.54	-	-	2	-
$\frac{1}{2}$ L „	53.67	4	214.68	5.50	5.50	4	22.00
F.P.	120.60	1	120.60	18.00	18.00	1	18.00
Total			542.72				65.00

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L

„ „ aft of „ =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{477.72 - 2012}{18} = +14.57"$
If limited on account of midship superstructure.

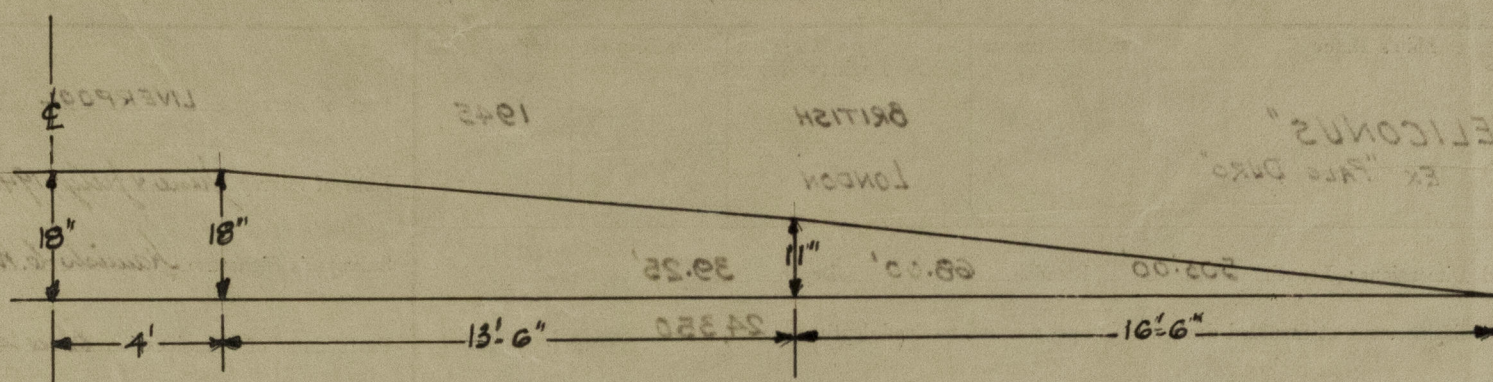
If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient 1.427/1.36
Depth to Freeboard Deck = 39.33	$\Delta = 21910$	Depth Correction 17.40
Summer freeboard = 9.23	Tons per inch immersion at summer load water line	Deduction for superstructures 13.10
Moulded draught (d) = 30.10	T = 67.22	Sheer correction 14.57
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction08
Winter freeboard = $\frac{d}{4}$ inches = 7.52 = 7½"	$\frac{21910}{40 \times 67.22} = 8.15" = 8¼"$	Correction for Thickness of Deck amidships -
Addition for Winter North Atlantic Freeboard (if required) = 7.52 + 5.03 = 12.55 = 12½"	AT 29.6 = 21,350 30.0 = 21,750 30.6 = 22,150	Other corrections, scantlings, etc. -
	DISPT. T.F.P. 66.8 67.1 67.4	Summer Freeboard = 111.49

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

As previously assigned by American Bureau	Tropical Fresh Water Line above Centre of Disc	15¾"	Tropical Fresh Water Freeboard	9-2¾"
	Fresh Water Line	8¼"	Fresh Water	7-11"
	Tropical Line	7½"	Tropical	8-6½"
	Winter Line below	7½"	Winter	8-7¼"
	Winter North Atlantic Line	12½"	Winter North Atlantic	9-10¼"
				10-3¼"

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.



Equivalentamber

$$\begin{array}{rcl} \text{Area} & = & 1.5 \times 4.0 = 6.00 \\ & & 13.5 \times \frac{29}{24} = 16.31 \\ & & 16.5 \times \frac{11}{24} = 7.56 \\ & & \underline{29.87} \end{array}$$

Equir cables = $\frac{29.87}{34.00} \times \frac{3}{2} \times 12$
 = 15.81

Point

Trade of ship

Tanker

Names of sister ships

T2-SE-A1 Tankers

Builder's name and yard number

Alabama Drydock & Shipbuilding Co.

Owners

Anglo Saxon Petroleum Co.

Fee £

17

19 : 6

DATE	DESCRIPTION	AMOUNT
1977	DISP	
1978	DISP	
1979	DISP	
1980	DISP	
1981	DISP	
1982	DISP	
1983	DISP	
1984	DISP	
1985	DISP	
1986	DISP	
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2100	DISP	

Lloyd's Register
Foundation