

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

GREENOCK REPORT N°20542.

Ship's Name "DAVILA"	Official Number 166464	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage APPROX 8000 8053	Date of Build 1938	Port of Survey GREENOCK
Moulded Dimensions: Length 460'0" Breadth 59'0" Depth 34'0"				Date of Survey WHILE BUILDING	
Moulded displacement at moulded draught = 85 per cent. of moulded depth 17745 tons				Surveyor's Signature <i>Kenneth Inglis</i>	
Coefficient of fineness for use with Tables .792				Particulars of Classification *100A1 (CONTEMPLATED) "CARRYING PETROLEUM IN BULK" "LONGITUDINAL FRAMING AT BOTTOM AT DECK"	

Depth for Freeboard (D). Moulded depth ... 34'0" Stringer plate ... 78" ... 07 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = Nil.$ Depth for Freeboard (D) = 34'07"	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R = (34'07 - 30'67) 3 = +10'20$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures ✓	Round of Beam correction. Moulded Breadth (B) 59'0" Standard Round of Beam = $\frac{B \times 12}{50} = 14'16$ Ship's Round of Beam = 14'75 Difference = Excess = .59 Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.59^2}{4} \times .5784 = -.08$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed <i>Equival.</i>	92'94" AT SIDE 94'4" AT CENTRE	92'94"	7'5"		92'94"	Standard Height of Superstructure 7'50 ✓
overhang ...						" " R.Q.D. ✓
R.Q.D. enclosed ...						Deduction for complete superstructure 42'00 ✓
overhang ...						Percentage covered $\frac{S}{L} = 42'19$ ✓
Bridge enclosed <i>Equival.</i>	44'63" AT SIDE 45'11" AT CENTRE	44'63"	7'5"		44'63"	" " $\frac{S_1}{L} = 42'16$ ✓
overhang aft ...						" " $\frac{E}{L} = 42'16$ ✓
overhang forward ...						Percentage from Table, Line A. TANKER 33'16 ✓
F'cle enclosed <i>Equival.</i>	56'00" AT SIDE 56'00" AT CENTRE	56'00"	7'5"		56'00"	(corrected for absence of forecastle (if required))
overhang ...						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 = 42'00 x .3316 = -13'93 ✓
" " forward						
Total ...	194'07	193'95			193'95	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P. ...	56'00	1	56'00	56'0	56'00	1	56'00	Mean actual sheer aft = Excess
1/4 L from A.P. ...	24'92	4	99'68	25'25	25'25	4	101'00	Mean actual sheer forward = Excess
1/2 L " ...	6'16	2	12'32	6'70	6'70	2	13'40	Mean standard sheer aft
Amidships ...	-	4	-	0	-	4	-	Mean standard sheer forward
3/4 L from F.P. ...	12'32	2	24'64	13'0	13'00	2	26'00	Length of enclosed superstructure forward of amidships = } Tanker
1/4 L " ...	49'84	4	199'36	49'75	49'75	4	199'00	" " aft of " = }
F.P. ...	112'00	1	112'00	112'0	112'00	1	112'00	
Total ...			504'00				507'40	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{3'40}{18} (.75 - .2110) = -.10"$
 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 = 34'07
 Summer freeboard = 6'69
 Moulded draught (d) = 27'38

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6'85 = 6' 3/4 ✓

Addition for Winter North Atlantic Freeboard (if required) = 6'85 + 4'6 = 11'45 = 11' 1/2 ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line

28' = 17133

Δ = 27' = 16456 16862 ✓

Tons per inch immersion at summer load water line

28' = 56'42

T = 27' = 56'00 56'25 ✓

Deduction = $\frac{\Delta}{40 T}$ inches

= 7'495 = 7' 1/2 ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.792 + .68}{1.36} = \frac{1.472}{1.36}$

	+	-
Depth Correction ...	10'20	-
Deduction for superstructures ...	-	13'93
Sheer correction ...	-	10
Round of Beam correction ...	-	08
Correction for Thickness of Deck amidships ...	-	-
Other corrections, scantlings, etc. ...	-	-
Summer Freeboard =	10'20	14'11 - 3'9.1
		80'19 ✓

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

Tropical Fresh Water Line above Centre of Disc ...	14'4	Tropical Fresh Water Freeboard ... 6' 8 1/4 ✓
Fresh Water Line " " ...	7' 1/2	Fresh Water " " ... 5' 6 3/4 ✓
Tropical Line " " ...	6' 3/4	Tropical " " ... 6' 0 3/4 ✓
Winter Line below " " ...	6' 3/4	Winter " " ... 6' 1 1/2 ✓
Winter North Atlantic Line " " ...	11' 1/2	Winter North Atlantic " " ... 7' 3 ✓

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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.

Poof Equiv^t Bhd ✓ ✓ ✓
 $90.125 + (\frac{2}{3} \times 4.21) = 92.935$ ✓

Bridge Equiv^t Bhd. ✓ ✓ ✓
 $42.08 + (\frac{2}{3} \times 3.83) = 44.63$ ✓

Forecastle Equiv^t Bhd

$\frac{29.71 \times 17.42}{54.50} = \frac{65.50}{56.00} = 9.50$ ✓ ✓
✓ Equiv^t Bhd.

Trade of ship INTERNATIONAL.

Names of sister ships M. V. ARINIA. GREENOCK FREEBOARD REPORT N^o 20128.

Builder's name and yard number LITHGOW L^{TD} N^o 907

Owners ANGLO SAXON PETROLEUM CO L^{TD}

APPROX
Fee £ 19: 0: 0

TO BE RENDERED WITH FIRST ENTRY.



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