Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

48424

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
GEORGIOS MANOLAKIS	1428	Greek Piraeus	10060.86	1939

Port of Survey Piraeus

Date of Survey _____

Surveyor's Signature E.T. Reid

Particulars of Classification 100A1
~~Oil Tanker carrying oil in bulk.~~ (Contemplated)

Moulded Dimensions: Length 483.465' Breadth 65.75' Depth 35.917'
To ℄ of R.S.

Moulded displacement at moulded draught = 85 per cent. of moulded depth 21.730 tons SW

Coefficient of fineness for use with Tables 0.785

DEPTH FOR FREEBOARD (D).

Moulded depth ... 35.917!..

Stringer plate 23mm ... 0.075!..

Sheathing on exposed deck -

$T\left(\dfrac{L-S}{L}\right) =$

Depth for Freeboard (D) = 35.992

DEPTH CORRECTION.

(a) Where D is greater than Table depth

$\left(\dfrac{D-\text{Table depth}}{15} = \dfrac{35.992 - 483.465}{15}\right) \times 3 = +11.31$

(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) 65.75'

Standard Round of Beam = $\dfrac{B \times 12}{50}$ = 15.78

Ship's Round of Beam 400mm = 15.78

Difference 0

Restricted to

Correction = $\dfrac{\text{Diff}^e}{4} \times \left(1 - \dfrac{S_1}{L}\right)$ = 0

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	103.0	103.0	7'-6"	-	103.0
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed					
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed	=48.34	39.89	7'-6"	-	39.89
„ overhang	=21.86 / =10.93	10.93	7'-6"	-	10.93
Trunk aft					
„ forward					
Tonnage opening aft ...					
„ „ forward...					
Total	173.2	153.82			153.82

Standard Height of Superstructure 7'-6"

„ „ R.Q.D. -

Deduction for complete superstructure 42

Percentage covered $\dfrac{S}{L}$ = 35.9%

„ „ $\dfrac{S_1}{L}$ = 31.9%

„ „ $\dfrac{E}{L}$ = 31.9%

Percentage from Table, Line A. 22.9%
(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 = 9.64 inch

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	58.3	1	58.30	45.3	45.3	1	45.3
⅙L from A.P. ...	26.00	4	104.00	21.7	21.7	4	86.8
⅔L „ ...	6.42	2	12.84	5.9	5.9	2	11.8
Amidships ...	0	4	0	0	0	4	0
⅔L from F.P. ...	12.84	2	25.68	11.8	11.8	2	23.6
⅙L „ ...	52.00	4	208.00	43.4	43.4	4	173.6
F.P.	116.60	1	116.60	90.60	90.60	1	90.60
Total ...			525.42				431.7

$\dfrac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} = .823$

$\dfrac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} = .823$

$\dfrac{\text{Length of enclosed superstructure}}{L}$ forward of amidships =

„ „ aft of „ =

Correction = $\dfrac{\text{Difference between sums of products}}{18} \left(·75 - \dfrac{S}{2L}\right) = \dfrac{93.72}{18}\left(0.75 - \dfrac{173.2}{2 \times 483.465}\right)$ = 2.97" limited to maximum allowance of 1½ ins. per 100 ft.

If limited on account of midship superstructure.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Ft.

Depth to Freeboard Deck = 35.992

Summer freeboard = 7.886

Moulded draught (d) = 28.106

Deduction for Tropical freeboard and addition for

Winter freeboard = $\dfrac{d}{4}$ inches = 7.02

Addition for Winter North Atlantic Freeboard (if required) = 7.02 + 4.83 = 11.85"

Deduction for Fresh Water.

Displacement in salt water at summer load water line
Δ = 19880

Tons per inch immersion at summer load water line
T = 65.6

Deduction = $\dfrac{\Delta}{40\,T}$ inches = 7.57 inches

TABULAR FREEBOARD corrected for Flush Deck (if required) 83.53

Correction for coefficient $\dfrac{0.785 = 0.68}{1.36} \times 83.53 = $ 90.00

	+	−
Depth Correction	11.31	
Deduction for superstructures		9.64
Sheer correction	2.97	
Round of Beam correction	0	
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc. ...		
	14.28	9.64

14.28 9.64 4.64

Summer Freeboard 94.64 = 7'-10 ⅝"

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

Tropical Fresh Water Line above Centre of Disc	14.59"	Tropical Fresh Water Freeboard	80.05 /77 6'-8.05"
Fresh Water Line „ „	7.57"	Fresh Water	87.02 7'-3.02"
Tropical Line „ „	7.02"	Tropical	87.62 7'-3.62"
Winter Line below „	7.02"	Winter	101.66 8'-5.66"
Winter North Atlantic Line „	11.85"	Winter North Atlantic	106.49 8'-10.49"

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.

Length of Pop:-

47-43 - 4 @ 734 = 2936

43-10 - 33 @ 760 = 25080

10-0 - 10 @ 610 = 6100

34116 =

Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____ : _____