

NOV 15 1939

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

GRK. REPORT N° 20847

Ship's Name DESMOULEA	Official Number 167378	Nationality and Port of Registry BRITISH LONDON.	Gross Tonnage APPROX 8000 8120	Date of Build 1939	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 Kenneth Inglis.
Coefficient of fineness for use with Tables .792					Particulars of Classification +100A.1 (CONT'D) 'CARRYING PETROLEUM IN BULK' 'LONGITUDINAL FRAMING AT BOTTOM & AT DECK'

Depth for Freeboard (D). Moulded depth ... 34'-0" Stringer plate78" Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = \text{NIL}$ Depth for Freeboard (D) = 34.07	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = $(34.07-30.67) 3 = +10.20"$ (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) 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 = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.59}{4} \times .587 = -.09"$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	94.95	94.95	7.5	✓	94.95	Standard Height of Superstructure 7.50
.. overhang ...	6					" " R.Q.D. ✓
R.Q.D. enclosed	✓					Deduction for complete superstructure 42.00
.. overhang	47.51	47.51	7.5	✓	47.51	Percentage covered $\frac{S}{L} = 41.97$
Bridge enclosed...	48.11	48.11	7.5	✓	48.11	" " $\frac{S_i}{L} = 41.83$
.. overhang aft	1.87	1.87			1.87	" " $\frac{E}{L} = 41.83$
.. overhang forward	6					Percentage from Table, Line A. Tanker 32.83
Fore enclosed ...	48.08	48.08	7.5	✓	48.08	(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 × .3283 = 13.79"
.. forward						
Total ...	193.04	192.41			192.41	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P. ...	56.00	1	56.00	56	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 =
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.	112.00	1	112.00	
Total ...			504.00				507.40	

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{3.40}{18} \times (.75 - .2098) = -.10"$$

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 + 4.60 = 11.45 = 11 1/2"	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 27-16456$ Tons per inch immersion at summer load water line $T = 28-56.42$ Deduction = $\frac{\Delta}{40T}$ inches $= \frac{27-16456}{40 \times 28-56.42} = 7.495$ $= 7 1/2"$	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.792 + .68}{1.36}$ <table border="1"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Depth Correction</td> <td>10.20</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures</td> <td>-</td> <td>13.79</td> </tr> <tr> <td>Sheer correction</td> <td>-</td> <td>.10</td> </tr> <tr> <td>Round of Beam correction</td> <td>-</td> <td>.09</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>-</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td>-</td> <td>-</td> </tr> <tr> <td></td> <td>10.20</td> <td>13.98</td> </tr> </tbody> </table> Summer Freeboard = 80.32		+	-	Depth Correction	10.20	-	Deduction for superstructures	-	13.79	Sheer correction	-	.10	Round of Beam correction	-	.09	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		10.20	13.98
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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 1/4"
Fresh Water Line	... 7 1/2"
Tropical Line	... 6 3/4"
Winter Line below	... 6 3/4"
Winter North Atlantic Line	... 11 1/2"

Tropical Fresh Water Freeboard	... 5 1/2"
Fresh Water	... 6'-0 1/4"
Tropical	... 6'-1 1/2"
Winter	... 7'-3 1/4"
Winter North Atlantic	... 7'-7 1/4"

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RECEIVED

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.

Trade of ship. INTERNATIONAL.

Names of sister ships M.Y. DELPHINULA, LITHGOWS LTD N° 919, GREENOCK FREEBOARD REPORT N° 20802.

Builder's name and yard number LITHGOWS LTD N° 920.

Owners ANGLO-SAXON PETROLEUM CO LTD.

Fee £ 19 0 0

☒ To BE RENDERED WITH FIRST ENTRY.



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Foundation

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