

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
M/T "GLIMMINGEHUS"	8606	Swedish. Malmö.	abt. 8500	1943.	Malmö.
Moulded Dimensions: Length 465.75' Breadth 62.0' Depth 34.5'					Date of Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth 18830 tons					Whilst building.
Coefficient of fineness for use with Tables 7783					Surveyor's Signature
					Adundin
					Particulars of Classification
					100A1 Carrying Petroleum in Bulk. (Completed)

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 34.5'	(a) Where D is greater than Table depth (D—Table depth) R = (34.56—31.05)3 = + 10.53"	Moulded Breadth (B) 62.0'
Stringer plate ... 76" = 6.33'	(b) Where D is less than Table depth (if allowed) (Table depth—D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 14.88$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 14.97'
Depth for Freeboard (D) = 34.563'		Difference Excess 0.09
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.09}{4} \times .5873 = -.01"$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	97.11'	97.11	7.75'		97.11
» overhang ...					
R.Q.D. enclosed ...					
» overhang ...					
Bridge enclosed...	38.33'	38.33	7.75'		38.33
» overhang aft ...					
» overhang forward					
F'cle enclosed ...	56.79'	56.79	7.5'		56.79
» overhang ...					
Trunk aft ...					
» forward ...					
Tonnage opening aft ...					
» » forward					
Total ...	192.23	192.23			192.23

Standard Height of Superstructure	7.5'
» » R.Q.D.	
Deduction for complete superstructure	42"
Percentage covered $\frac{S}{L} =$	41.27
» » $\frac{S_1}{L} =$	41.27
» » $\frac{E}{L} =$	41.27
Percentage from Table, Line A. Tanker (corrected for absence of forecastle (if required))	32.27%
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction = 42 × 32.27 =	-13.55"

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	56.57	1		56.57	41.74"	41.74	1		41.47
1/6L from A.P. ...	25.18	4		100.72	3.02"	3.02	4		12.08
2/6L " ...	6.22	2		12.44	0.	0	2		-
Amidships ...	-	4		-	0.	0	4		-
2/6L from F.P. ...	12.44	2		24.88	0.08"	0.08	2		0.16
1/6L " ...	50.35	4		201.40	25.88"	25.88	4		103.52
F.P. ...	113.15	1		113.15	100.25"	100.25	1		100.25
Total ...				509.16					257.75

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{251.41}{18} (.75 - .2064) = + 7.59"$	Mean actual sheer aft = Deficient.
If limited on account of midship superstructure.	Mean standard sheer aft
	Mean actual sheer forward = Deficient.
	Mean standard sheer forward
	Length of enclosed superstructure forward of amidships = Tanker with
	» » aft of » = deficient sheer.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 34.56 Ft.
Summer freeboard = 7.45
Moulded draught (d) = 27.11

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.78" = 172 mm.

Addition for Winter North Atlantic Freeboard (if required) = 6.78 + 4.66 = 11.44" = 291 mm.

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 17270$

Tons per inch immersion at summer load water line
T = 61.05

Deduction = $\frac{\Delta}{40 T}$ inches
7.08" = 180 mm.

Free over!

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient	$\frac{7783 + .68}{1.36} = \frac{1.4583}{1.36}$	79.14
		84.86
Depth Correction ...	10.53	
Deduction for superstructures ...	- 13.55	
Sheer correction ...	7.59	
Round of Beam correction ...	- .01	
Correction for Thickness of Deck amidships ...	-	
Other corrections, scantlings, etc. ...	-	
	18.12	13.56
Summer Freeboard =	89.40"	

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

Tropical Fresh Water Line above Centre of Disc ...	352 mm.	Tropical Fresh Water Freeboard ...	1919 "
Fresh Water Line " " ...	180 "	Fresh Water " " ...	2091 "
Tropical Line " " ...	172 "	Tropical " " ...	2099 "
Winter Line below " " ...	172 "	Winter " " ...	2443 "
Winter North Atlantic Line " " ...	291 "	Winter North Atlantic " " ...	2562 "

Glimminghus.

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.

Displacement in salt water and tons per inch immersion:-

Moulded draught.	Displacement.	Tons per inch.
75' = 25.875'	16365 tons.	60.87
80' = 27.60'	17630 "	61.12
85' = 29.325'	18900 "	61.37.

Trade of ship ✓

Names of sister ships

M/T "Lillörens", Hockemus Yard No. 247.

Builder's name and yard number

Hockemus Mek. Verkstads A.-B., Yard No. 248.

Owners

Tullbergs Ångfartygs Nya A.-B., Tullberg.

Fee £



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