

14 AUG 1945

Index No. 37456
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name M/T "JULIAN"	Official Number	Nationality and Port of Registry Norwegian Bergen	Gross Tonnage abt. 8500	Date of Build 1943	Port of Survey Mahua
Moulded Dimensions: Length 465.95' Breadth 62.0' Depth 34.50'	Moulded displacement at moulded draught = 85 per cent. of moulded depth 18830 tons				Date of Survey Whilst building.
Coefficient of fineness for use with Tables .7783	Surveyor's Signature A. Sundin				Particulars of Classification + 100 A1 <i>Carrying Petroleum in Bulk (last template)</i>

008533-008540-0226

Depth for Freeboard (D). Moulded depth 34.50 Stringer plate .76"06 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 34.56	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(34.56 - 31.05) \cdot 3 = +10.53"$ (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) 62.0 Standard Round of Beam = $\frac{B \times 12}{50} =$ 14.88 Ship's Round of Beam = 14.97 Difference Excurs 0.09 Restricted to Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{.09}{4} \times .5872 = -.01"$
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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 38.38	38.38	7.95		38.38
» overhang aft				
» overhang forward				
F'cle enclosed 56.79	56.79	7.50		56.79
» overhang				
Trunk aft				
» forward				
Tonnage opening aft ...				
» forward				
Total 192.28	192.28			192.28

Standard Height of Superstructure 9.5
» » R.Q.D.
Deduction for complete superstructure 42.00
Percentage covered $\frac{S}{L} =$ 41.28
» » $\frac{S_1}{L} =$ 41.28
» » $\frac{E}{L} =$ 41.28
Percentage from Table, Line A. Table 36.48% (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 = $42 \times .3228 = -13.56"$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	56.57	1		56.57	49.74	41.74	1		41.74
1/6 L from A.P. ...	25.18	4		100.72	3.02	3.02	4		12.08
2/6 L » ...	6.22	2		12.44	-	-	2		-
Amidships	-	4		-	-	-	4		-
2/6 L from F.P. ...	12.44	2		24.88	0.08	0.08	2		0.16
1/6 L » ...	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

Mean actual sheer aft = **Deficient**
 Mean standard sheer aft = **Deficient**

Mean actual sheer forward = **Deficient**
 Mean standard sheer forward = **Deficient**

Length of enclosed superstructure forward of amidships = **Table with deficient plan**
 » » aft of » = **Table with deficient plan**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{251.41}{18} \times (.75 - .2064) = +7.59$
 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 = 34.56 Summer freeboard = 7.45 Moulded draught (d) = 27.11 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.78" Addition for Winter North Atlantic Freeboard (if required) = 6.78 + 4.66 = 11.44"	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 19270 Tons per inch immersion at summer load water line $T =$ 61.05 Deduction = $\frac{\Delta}{40 T}$ inches = 7.08"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.7783 - .68}{1.26} = \frac{.0983}{1.26}$ Depth Correction 10.53 Deduction for superstructures 18.24 Sheer correction 7.59 Round of Beam correction01 Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. Summer Freeboard = 89.41"
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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 1-13/16" = 34.97"	Tropical Fresh Water Freeboard 7'-5 1/2" = 227.3 mm
Fresh Water Line » » 7/8" = 178"	Fresh Water » 6'-3 3/4" = 193.4"
Tropical Line » » 6 3/4" = 171"	Tropical » 6'-10 1/2" = 209.5"
Winter Line below » 6 3/4" = 171"	Winter » 8'-0 1/4" = 244.4"
Winter North Atlantic Line » » 11 1/2" = 292"	Winter North Atlantic » 8'-5" = 256.5"

Lloyd's Register
Foundations

M. T. JULIAN

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 tons	61.12
85% 29.325'	18900 tons	61.37

Trade of ship

Names of sister ships

M/T "Beauregard" Kochums Gard No 222.

Builder's name and yard number

Kochums Mek. Verkefads A.-B. Gard No 224

Owners

Hilma Beksten, Bergen.

Fee £



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Lloyd's Register
Foundation