

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

 Index. No. \_\_\_\_\_  
 (For London Office only).

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>K O C K U M S No. 366</b>	Official Number	Nationality and Port of Registry <b>Norwegian</b>	Gross Tonnage	Date of Build	Port of Survey <b>Gothenburg</b>
Moulded Dimensions: Length <b>152.400</b> ✓	Breadth <b>20.270</b> ✓	Depth <b>11.836</b> ✓			Date of Survey <b>8th May, 1951</b>
Freeboard Length <b>152.650</b>					Surveyor's Signature <i>M. J. Burns.</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>24205</b> tons					Particulars of Classification <b>100A1 Carrying Petroleum in Bulk</b>
Coefficient of fineness for use with Tables = <b>.771</b> ✓					

<b>Depth for Freeboard (D).</b> Moulded depth ..... <b>11.836</b> ✓ Stringer plate ..... <b>24</b> Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ ✓ Depth for Freeboard (D) = <b>11.860</b>	<b>Depth correction.</b> (a) Where D is greater than Table depth (D—Table depth) R = <b>8.33(11.860-10.177)30 = + 421</b> ✓ (b) Where D is less than Table depth (if allowed) (Table depth—D) R = <b>-</b> If restricted by superstructures <b>-</b>	<b>Round of Beam correction.</b> Moulded Breadth (B) <b>20.270</b> Standard Round of Beam = $\frac{B \times 11}{50} =$ <b>405</b> Ship's Round of Beam = <b>475</b> Difference <b>70</b> Restricted to Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{70}{4} \times .5875 = - 10.$
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## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed .....	31535 ✓	31535	2438		31535 ✓
» overhang .....					
R.Q.D. enclosed .....					
» overhang .....					
Bridge enclosed .....	13210 ✓	13210	2438		13210 ✓
» overhang aft .....					
» overhang forward .....					
Fore enclosed .....	18215 ✓	18215	2743		18215 ✓
» .....					
Trunk aft .....					
» forward .....					
Tonnage opening aft ...					
» » forward .....					
Total .....	62960	62960			62960 ✓

Standard Height of Superstructure	2290
» » R.Q.D.	-
Deduction for complete superstructure	1067
Percentage covered $\frac{S}{L} =$	
» » $\frac{S_1}{L} =$	41.25 ✓
» » $\frac{E}{L} =$	
Percentage from Table, Line <b>Ax Tanker</b> =	32.25 ✓
(corrected for absence of fore-castle [if required])	
Percentage from Table, Line B.	
(corrected for absence of fore-castle [if required])	
Interpolation for bridge less than 2L (if required)	
Deduction = 1067 x .3225 = - 344 ✓	

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ....	1525	1		1525	914	914	1		914 ✓
1/6 L from A.P. ...	677	4		2708	146	146	4		584 ✓
2/6 L » ...	168	2		336	-	-	2		-
Amidships .....	-	4		-	-	-	4		-
2/6 L from F.P. ...	339	2		678	-	-	2		-
1/6 L » ...	1355	4		5420	-	-	4		-
F.P. ....	3025	1		3052	1676	1676	1		1676 ✓
Total ...				13719 ✓					3174 ✓

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{105.45}{18} (.75 - .2062) = + 318.6$  ✓  
 If limited on account of midship superstructure.

Mean actual sheer aft	
Mean standard sheer aft	Deficient ✓
Mean actual sheer forward	
Mean standard sheer forward	
Length of enclosed superstructure	
L forward of amidships =	
» » aft of » =	Tanker

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

Depth to Freeboard Deck = **11.860**  
 Summer freeboard = **2.763**  
 Moulded draught (d) = **9.097** ✓  
 Deduction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches = **2.274** ✓  
 Addition for Winter North Atlantic Freeboard (if required) =

**Deduction for Fresh Water.**

Displacement in salt water at summer load water line  
 $\Delta =$   
 Tons per inch immersion at summer load water line  
 $T =$   
 Deduction =  $\frac{\Delta}{40 T}$  inches =

**TABULAR FREEBOARD** (corrected for thickness of deck)

Correction for coefficient  $\frac{.771 + .68}{1.36} = \frac{1.451}{1.36} =$  **1.067** ✓

	+	-
Depth Correction .....	421	-
Deduction for superstructures .....	-	344
Sheer correction .....	319	-
Round of Beam correction .....	-	10
Correction for Thickness of Deck amidships ...	-	-
Other corrections, scantlings, etc. ....	-	-
	740	354 = + 386
Summer Freeboard =		2763

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

Tropical Fresh Water Line above Centre of Disc .....	Tropical Fresh Water Freeboard .....
Fresh Water Line » » .....	Fresh Water » » .....
Tropical Line » » .....	Tropical » » .....
Winter Line below » » .....	Winter » » .....
Winter North Atlantic Line » » .....	Winter North Atlantic » » .....



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.

Verhang

Trade of ship .....

Names of sister ships ..... Kockums 363, except for length of poop.

Builder's name and yard number .....

Owners .....

Fee Kr. ....

Order  
with  
21.5.52



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Foundation