

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

FEB 1952

Ship's Name "KOS I" <i>not yet</i> now NONO	Official Number	Nationality and Port of Registry BRITISH, SYDNEY.	Gross Tonnage 247	Date of Build 1929	Port of Survey TJØME NR. TØNSBERG
Moulded Dimensions: Length 116'-0" ✓ Breadth 24'-0" ✓ Depth 13'-6" ✓					Date of Survey JANUARY, 1952
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					Surveyor's Signature B. S. Witowski ✓
Coefficient of fineness for use with Tables .68 <i>ammm</i>					Particulars of Classification BS* WHALING PURPOSES

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	13.50'	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	24.00
Stringer plate	.30"	(13.64 - 7.73) .892 = +5.27"		Standard Round of Beam = $\frac{B \times 12}{50}$	5.76
Sheathing on exposed deck	✓	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	7"
$T \left(\frac{L-S}{L} \right) = \frac{53.92 \times .23}{116}$.11			Difference	+ 7.24 ✓
Depth for Freeboard (D) =	13.64	If restricted by superstructures	✓	Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{1.24}{4} = -0.31$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

Standard Height of Superstructure **6.00** ✓

" " R.Q.D. ✓

Deduction for complete superstructure **17.6** ✓

Percentage covered $\frac{S}{L} =$

" " $\frac{S_1}{L} =$

" " $\frac{E}{L} =$

Percentage from Table, Line A.
(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 = **NIL.**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	21.60	✓	1	21.60	51"	51.00	✓	1	51.00
$\frac{1}{8}L$ from A.P.	9.61	✓	4	38.44	22.5"	22.50	✓	4	90.00
$\frac{3}{8}L$ "	2.38	✓	2	4.76	7.25"	7.25	✓	2	14.50
Amidships	✓		4	✓	0	✓	✓	4	✓
$\frac{5}{8}L$ from F.P.	4.75	✓	2	9.50	9.5"	9.50	✓	2	19.00
$\frac{7}{8}L$ "	19.22	✓	4	76.88	31.0"	31.00	✓	4	124.00
F.P.	43.20	✓	1	43.20	75.5"	75.50	✓	1	75.50
Total				194.38					374.00

Mean actual sheer aft
Mean standard sheer aft =

Mean actual sheer forward
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{179.62 \times .75}{18} = -7.48"$ ✓

If limited on account of midship superstructure. ✓

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. ✓

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **13.53** Ft.

Summer freeboard = **2.17**

Moulded draught (d) = **11.36**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches =

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

2 1/2"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

with an all-season draught of 11'-4"

13.34

13.34

5.27 ✓

7.48 ✓

0.31 ✓

1.32 ✓

16.50 ✓

21.77 ✓

9.11 ✓

+ 12.66

Summer Freeboard = 26.00

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

Tropical Fresh Water Line above Centre of Disc	2 1/2"
Fresh Water Line	2 1/2"
Tropical Line	NIL
Winter Line below	NIL
Winter North Atlantic Line	NIL

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

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.

Trade of ship

Names of sister ships "KOS II" & "KOS VI"

Builder's name and yard number MESSRS. SMITH'S DOCK CO., LD., SOUTH BANK, MIDDLESBROUGH.

Owners MESSRS. WHALE PRODUCTS, PTY, LTD., SYDNEY, N.S.W., AUSTRALIA.

Fee £ NOT CHARGED YET



© 2021

Lloyd's Register
Foundation