

*Kos VII
43378*

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

FEB 1952

Ship's Name "KOS I" <i>not yet now NONO</i>	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					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 =	(13.64 - 7.73) .892 = +5.27"	Moulded Breadth (B)	24.00
Stringer plate	.30"	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	5.91	Standard Round of Beam = $\frac{B \times 12}{50}$	5.76
Sheathing on exposed deck	.11	If restricted by superstructures	✓	Ship's Round of Beam	7"
$T \left(\frac{L-S}{L} \right) = \frac{53.92 \times .23}{116}$				Difference	+ 7.24 ✓
Depth for Freeboard (D) =	13.64			Restricted to	
				Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L}\right)$	$\frac{1.24}{4} = -0.31"$

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.**

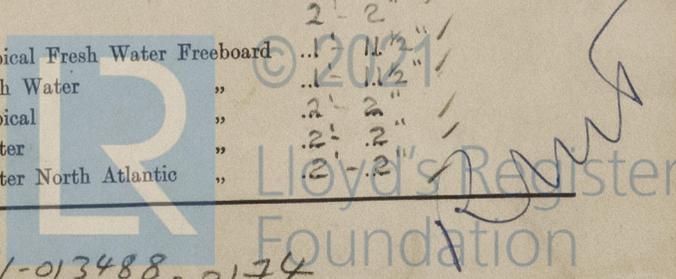
SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	21.60	1	21.60	51"	51.00	1	51.00
$\frac{1}{8}L$ from A.P.	9.61	4	38.44	22.5"	22.50	4	90.00
$\frac{2}{8}L$ „	2.38	2	4.76	7.25"	7.25	2	14.50
Amidships		4		0		4	
$\frac{3}{8}L$ from F.P.	4.75	2	9.50	9.5"	9.50	2	19.00
$\frac{4}{8}L$ „	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 = } EXCESS ✓
 Mean actual sheer forward
 Mean standard sheer forward = }
 Length of enclosed superstructure forward of amidships = }
 „ „ aft of „ = } FLUSH DECK. ✓

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{179.62 \times .75}{18} = -9.48"$ ✓
 If limited on account of midship superstructure. ✓
 If limited to maximum allowance of 1½ 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 = 2½"	TABULAR FREEBOARD corrected for Flush Deck (if required) 13.34 ✓ Correction for coefficient NIL Depth Correction 5.27 ✓ Deduction for superstructures 7.48 ✓ Sheer correction 0.31 ✓ Round of Beam correction 1.32 ✓ Correction for Thickness of Deck amidships 16.50 ✓ Other corrections, scantlings, etc. 21.77 ✓ Summer Freeboard = 26.00 ✓
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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	2½"	Tropical Fresh Water Freeboard	1.12"
Fresh Water Line	2½"	Fresh Water	1.12"
Tropical Line	NIL	Tropical	2.2"
Winter Line below	NIL	Winter	2.2"
Winter North Atlantic Line	NIL	Winter North Atlantic	2.2"



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

ref.



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Foundation