

AMENDED

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, ~~TANKER~~)

For LONDON OFFICE ONLY

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Ship's Name OXOTCK OKHOTSK	Official Number	Nationality and Port of Registry U.S.S.R. Vladivostok.	Gross Tonnage 11105.87	Date of Build June 1962.	Port of Survey
Moulded Dimensions: Length Breadth 21.000m Depth 12.500m					Date of Survey 4/7/62
Freeboard Length 143.330m					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 23,710 K. tons (excluding bossing)					Particulars of Classification +100A1
Coefficient of fineness for use with Tables .723					(contemplated)

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 12.500	(a) Where D is greater than Table depth (D - Table depth) R = 8.33(12.532 - 9.555)30 = +744mm	Moulded Breadth (B) 21.000m
Stringer plate032	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 2.77	Standard Round of Beam = $B \times \frac{12}{50} = \frac{420}{50} = 420$
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 420
Depth for Freeboard (D) = 12.532		Difference 0
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S}{L} \right) = \text{Nil.}$

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'dle enclosed	10.550	10.550	2290	—	10.550
" overhang680	.680			.680
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	11.230	11.230			11.230

Standard Height of Superstructure **2290m**

" " R.Q.D. **—**

Deduction for complete superstructure **1067mm**

Percentage covered $\frac{S}{L} =$ **7.83**

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

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

Percentage from Table, Line A. **3.92**
 (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 = $1067 \times .0392 = 42mm.$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	1448	1	1448	1450	1450	1	1450
1/4 L from A.P.	644	4	2576	643	643	4	2572
1/2 L "	159	2	318	160	160	2	320
Amidships	0	4	0	0	0	4	0
3/4 L from F.P.	319	2	638	328	328	2	656
1/4 L "	1289	4	5156	1304	1304	4	5216
F.P.	2896	1	2896	2927	2927	1	2927
Total			13,032				13,141

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{S}{2L} \right) = \frac{109}{18} \left(\frac{.75 - .0392}{2} \right) = -4 \text{ limited}$
 If limited on account of midship superstructure. **Nil.**

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **12.532m**
 Summer freeboard = **3.189**
 Moulded draught (d) = **9.343**
 Keel allowance = **—**
 Extreme draught = **—**
 Deduction for Tropical freeboard and addition for = **—**

Winter freeboard = $\frac{d}{48} = \frac{9.343}{48} = 195mm$

Addition for Winter North Atlantic Freeboard (if required) = **100.587**

Deduction for Fresh Water.

Displacement in salt water at summer load water line $\Delta = 20420$
 Tons per inch immersion at summer load water line $T = 25.68$
 Deduction = $\frac{\Delta}{40 T} \text{ inches} = \frac{20420}{40 \times 25.68} = 199mm$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{1.403}{1.36}$

Depth Correction **744**
 Deduction for superstructures **42**
 Sheer correction **—**
 Round of Beam correction **—**
 Correction for Thickness of Deck amidships **—**
 Other corrections, scantlings, etc. **—**

+	-
744	42
—	—
—	—
—	—
—	—
744	42
+ 702	
Summer Freeboard = 3189mm	

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

Tropical Fresh Water Line above Centre of Disc	3.24m
Fresh Water Line " "	1.99m
Tropical Line " "	1.95m
Winter Line below " "	1.95m
Winter North Atlantic Line " "	—

Tropical Fresh Water Freeboard	2.795
Fresh Water	2.990
Tropical	2.994
Winter	3.384
Winter North Atlantic	not required

JUL 1962