

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

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

Received _____
 Index No. _____
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Ship's Name "ORIENTAL QUEEN" Ex "KANIMOLA"	Official Number (Conf. Letters) U.O.A.5	Nationality and Port of Registry PANAMANIAN PANAMA	Gross Tonnage 11,000A	Date of Build 4/1936	Port of Survey _____
Moulded Dimensions: Length 460.00' Breadth 66.00' Depth 36.02 to 100 Deck					Date of Survey 1961
Freeboard Length 460.00'					Surveyor's Signature _____
Moulded displacement at moulded draught = 85 per cent. of moulded depth 17,970 tons					Particulars of Classification +100 A1. With Freeboard.
Coefficient of fineness for use with Tables .677 (Use .68.)					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 36.02	(a) Where D is greater than Table depth (D-Table depth) R = (36.02-30.67)3 = 16.38 +	Moulded Breadth (B) 66.00'
Stringer plate04	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50}$ = 15.84"
Wood Sheathing on exposed deck 3" oak		Ship's Round of Beam = A.00
$T \left(\frac{L-S}{L} \right) = 25 \times .2614$.07	If restricted by superstructures	Difference 11.84"
Depth for Freeboard (D) = 36.13		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right)$ = $\frac{11.84}{4} \times .279$ = .83"

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 ...	255.00'	255.00'	8'3" to 8.6		255.00
" overhang aft75'	.56			.56
" overhang forward ...					
F'cle enclosed 60W. ...	67.83	67.83	8'1" to 8.4		67.83
" overhang ...	16.17	8.08			8.08
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	339.75'	331.47'			331.47'

Standard Height of Superstructure **7'6"**
 " " R.Q.D. _____
 Deduction for complete superstructure **42"**
 Percentage covered $\frac{S}{L} = 73.86\%$
 " " $\frac{S_1}{L} = 72.06\%$
 " " $\frac{E}{L} = 72.06\%$
 Percentage from Table, Line A. **65.53%**
 (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 = **42.00 x .6553 = -27.52"**

1/4" tall in lower part of midships.

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	56.00	1	56.00	56.62	55.62	1	55.62		
1/2 L from A.P. ...	24.92	4	99.68	23.50	23.50	4	94.00		
1/2 L " ...	6.16	2	12.32	4.94	4.94	2	9.88		
Amidships ...	0	4	0	0	0	4	0		
1/2 L from F.P. ...	12.32	2	24.64	14.37	14.37	2	28.74		
1/2 L " ...	49.84	4	199.36	52.00	52.00	4	208.00		
F.P. ...	112.00	1	112.00	111.87	111.87	1	111.87		
Total ...			504.00				508.11		

Mean actual sheer aft = **Deficient > 75% Standard**
 Mean standard sheer aft =

Mean actual sheer forward = **Excess**
 Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **> .1L**

" " aft of " = **> .1L**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{411(111.87 - 3693)}{18} = -.09"$
 If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

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 = $\frac{\Delta}{T}$ inches

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction ... **16.38**
 Deduction for superstructures ... **27.52**
 Sheer correction ... **.09**
 Round of Beam correction ... **.83**
 Correction for Thickness of Deck amidships ... **.84**
 Other corrections, scantlings, etc. ... **49.20**
 to Deduct with Leeward Draught (Amidships)
 Restricted by Position of Superstructures.

	+	-
Depth Correction	16.38	
Deduction for superstructures		27.52
Sheer correction		.09
Round of Beam correction	.83	
Correction for Thickness of Deck amidships		.84
Other corrections, scantlings, etc.	49.20	
Total	96.41	28.45

Summer Freeboard = **158.16**

36.06
 13.18
 22.88
 Depth to Freeboard Deck = **36.06**
 Summer freeboard = **13.18**
 Moulded draught (d) = **22.88**
 Keel allowance =
 Extreme draught =
 Deduction for Tropical freeboard and addition for =

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

Addition for Winter North Atlantic Freeboard (if required) =

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Steel~~ Deck :- **For ALL Seasons**

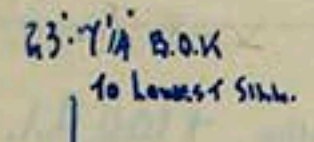
Tropical Fresh Water Line above Centre of Disc **1.45 m**
 Fresh Water Line " **1.45 m**
 Tropical Line " **NIL**
 Winter Line below " **NIL**
 Winter North Atlantic Line " **NIL**

Not Assigned

Tropical Fresh Water Freeboard
 Fresh Water " **3872 m**
 Tropical " **3872 m**
 Winter " **4017 m**
 Winter North Atlantic " **4017 m**

Not Assigned

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.



with his signature and
Book 1. 3/10/10
Karl

Fee £