

Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.  
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
LOBNITZ N° 1124/5				
Moulded Dimensions: Length <u>270'</u> Breadth <u>44'</u> Depth <u>18-5'</u> Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>3724</u> tons Coefficient of fineness for use with Tables <u>.698</u>				

Port of Survey	
Date of Survey	5/2/51
Surveyor's Signature	
Particulars of Classification	

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	18.50	(a) Where D is greater than Table depth		Moulded Breadth (B)	44.00
Stringer plate	61" = 5.08	(D - Table depth) R =	1.14	Standard Round of Beam = $\frac{B \times 12}{50}$	10.56
Sheathing on exposed deck		(18.55 - 18.00) 2.077 =	+ 1.16	Ship's Round of Beam	10.50
T $\left( \frac{L-S}{L} \right) =$		(b) Where D is less than Table depth (if allowed)		Difference	- .06
Depth for Freeboard (D) =	18.55	(Table depth - D) R =		Restricted to	
		If restricted by superstructures		Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right)$	2830 - .06 x 2926 = NIL

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>i</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed <i>Equiv.</i> ...	98.00	94.00	✓		95.00
" overhang ...	97.00	97.00	7.75		97.00
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed <i>Equiv.</i> ...	34.465	34.465	7.75		34.465
" overhang aft <i>Equiv.</i> ...	4.68 ✓	3.51 ✓			3.51 ✓
" overhang forward ...	4.06 ✓	2.03 ✓			2.03 ✓
File enclosed ...	54.00 ✓	54.00	7.00	✓	54.00
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft					
" " forward...	195.19	191.39			191.99
Total ...	194.20	191.00			191.00

Standard Height of Superstructure 6.20' ✓

" " R.Q.D. ✓

Deduction for complete superstructure 33.00" ✓

Percentage covered  $\frac{S}{L} =$  71.93 77.29.

" "  $\frac{S_1}{L} =$  70.74 71.10.

" "  $\frac{E}{L} =$  ✓

Percentage from Table, Line A. TANKER

~~(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 = ✓ 6435 21.24

33.00 x .6391 = - 21.09

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	37.00	1				1	
$\frac{1}{6}$ L from A.P. ...		4				4	
$\frac{2}{6}$ L „ ...		2				2	
Amidships ...		4				4	
$\frac{2}{6}$ L from F.P. ...		2				2	
$\frac{1}{6}$ L „ ...		4				4	
F.P. ...	74.	1				1	
Total ...			333.00				333.00

Mean actual sheer aft  
Mean standard sheer aft =

Mean actual sheer forward  
Mean standard sheer forward =

Length of enclosed superstructure  
L forward of amidships =

" " aft of " =

STANDARD

TANKER.

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$  NIL. ✓  
 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 = 18.55 Ft. ✓  
Summer freeboard = 1.31 ✓  
Moulded draught (d) = 17.24 ✓

## Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches =  $4.31 \approx 4\frac{1}{4}$

Addition for Winter North Atlantic Freeboard (if required)=

### Deduction for Fresh Water.

Displacement in salt water at  
summer load water line  
 $\Delta = 4199$  <sup>4205</sup> TONS.  
Tons per inch immersion at  
summer load water line  
T = 23.96 ✓

$$\begin{aligned}\text{Deduction} &= \frac{\Delta}{40 T} \text{ inches} \\ &= 4.38'' \\ &= 4\frac{1}{2}'' \checkmark\end{aligned}$$

TABULAR FREEBOARD ~~corrected for Flush Deck (if required)~~

Correction for coefficient  $\frac{.698 + .68}{1.36} = \frac{1.378}{1.36} \checkmark$

	+	-
Depth Correction ... ..	1.74	✓
Deduction for superstructures ... ..	1.16	✓
Shear correction ... ..	✓	2.189
Round of Beam correction ... ..	✓	✓
Correction for Thickness of Deck amidships ... ..	✓	✓
Other corrections, scantlings, etc. ... ..	✓	✓

Other corrections, scantlings, etc. ...

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

1-16 21-014 - 11-13

Summer freeboard = 15.74

Wood, Steel, Deck :—

3 3/4 Tropical Fresh Water Freeboard

4.3 ✓ Fresh Water  $p = 1 \frac{1}{4}$

4.4 ✓ Tropical

44 Winter

Winter North Atlantic

Foundat

5082-005088-0146

1890

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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.

$$\begin{array}{rcl}
 \text{Bridge at mole} & = & 38.0' \\
 \text{less } \frac{20 \times 4}{42} & = & \frac{1.9}{36.10 \times \frac{42}{44}} \\
 & = & 34.45' \\
 \text{Roof} & = & 96.0' \\
 + \frac{2}{3} \times 3 & = & 2.0' \\
 & = & 98.0'
 \end{array}$$

$$\begin{array}{rcl}
 \text{o/H fwd} & = & 4.25 \times \frac{42}{44} \\
 & = & 4.06' \\
 \text{o/H aft} & = & (3.0 + 1.9) \times \frac{42}{44} \\
 & = & 4.68'
 \end{array}$$

Trade of ship .....

Names of sister ships .....

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

Owners .....

Fee £ .....



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