

Amended COMPUTATION.
LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER
SURVEYS FOR FREEBOARD
(COMPUTATION FOR ~~STEAMER~~, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received
Index No.
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Owners C11.....

Ship's Name WAVE SOVEREIGN.	Official Number 180813	Nationality and Port of Registry BRITISH	Gross Tonnage 8182	Date of Build 1946	Port of Survey.....
Moulded Dimensions: Length Breadth 64.0' Depth 35.50'					Date of Survey 3.9.54
Freeboard Length 465.96' CL OF RUDDER STOCK					Surveyor's Signature.....
Moulded displacement at moulded draught = 85 per cent. of moulded depth 17635 tons					Particulars of Classification +100M
Coefficient of fineness for use with Tables .686					carrying petroleum in bulk

DEPTH FOR FREEBOARD (D).
Moulded depth **35.50**
Stringer plate **30"** ... **.07**
Wood Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$
Depth for Freeboard (D) = **35.57**

DEPTH CORRECTION.
(a) Where D is greater than Table depth
(D-Table depth) R =
(35.57-31.07) 3.0 = +13.50
4.50
(b) Where D is less than Table depth (if allowed)
(Table depth-D) R =
If restricted by superstructures

ROUND OF BEAM CORRECTION.
Moulded Breadth (B) **64.0**
Standard Round of Beam = $\frac{B \times 12}{50} =$ **15.36**
Ship's Round of Beam = **16.13 equivalent**
Difference
Restricted to
Correction = $\frac{\text{Diff}^c}{4} \times \left(1 - \frac{S_1}{L} \right) =$ **.77 + .5002 = .10**

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed EQ. 118 ...	125.79	125.79	7.6'	✓	125.79
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	47.00	47.00	7.6'	✓	47.00
" overhang aft ...	10.50	7.88			7.88
" overhang forward ...					
F'cle enclosed ...					
" overhang ...	52.19	52.19	7.6'	✓	52.19
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	235.48	232.86			232.86

Standard Height of Superstructure **7.50'**
" " R.Q.D.
Deduction for complete superstructure **42.00'**
Percentage covered $\frac{S}{L} =$ **50.53** ✓
" " $\frac{S_1}{L} =$ **49.98** ✓
Percentage from Table, Line **A. TANKER** **40.98** ✓
(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 × .4098 = 17.21**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	56.60	1		56.60	13.00	13.00	1		13.00
$\frac{1}{4}$ L from A.P. ...	25.185	4		100.74	2.25	2.25	4		9.00
$\frac{3}{8}$ L " ...	6.225	2		12.45	.25	.25	2		.50
Amidships ...	0	4		0	0	0	4		0
$\frac{5}{8}$ L from F.P. ...	12.45	2		24.90	0	0	2		0
$\frac{3}{4}$ L " ...	60.37	4		201.48	11.25	11.25	4		45.00
F.P. ...	113.19	1		113.19	84.00	84.00	1		84.00
Total ...				609.36					151.50

Mean actual sheer aft =
Mean standard sheer aft = } **DEFICIENT**
Mean actual sheer forward =
Mean standard sheer forward = }
Length of enclosed superstructure forward of amidships =
" " aft of " = } **TANKER. DEFICIENT SHEERS.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **$\frac{357.86}{18} (.75 - .2527) = +9.89"$**
If limited on account of midship superstructure. **.4973** 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.

Ft.
Depth to Freeboard Deck = **35.57**
Summer freeboard = **7.13**
Moulded draught (d) = **28.44**
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ inches = **7.11 = 7"**

Addition for Winter North Atlantic Freeboard (if required) = **7.11 + 4.66 = 11.77 = 11 $\frac{3}{4}$ "**

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta =$ **16.442**
Tons per inch immersion at summer load water line
T = **56.5**
Deduction = $\frac{\Delta}{40 T}$ inches
= **7.23**
= **7 $\frac{1}{4}$ "**

TABULAR FREEBOARD **TANKER.** corrected for Flush Deck (if required)

Correction for coefficient **.686 × .68 = .466**
1.36
+ -
Depth Correction **13.50**
Deduction for superstructures **17.21**
Sheer correction **9.89**
Round of Beam correction **.10**
Correction for Thickness of Deck amidships
Other corrections, scantlings, etc.
23.39 17.31 + 6.08
Summer Freeboard = **85.62**

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

Tropical Fresh Water Line above Centre of Disc ... **14 $\frac{1}{4}$ "**
Fresh Water Line " " ... **7 $\frac{1}{4}$ "**
Tropical Line " " ... **7"**
Winter Line below " " ... **11 $\frac{3}{4}$ "**
Winter North Atlantic Line " " ...

Tropical Fresh Water Freeboard ... **5-11 $\frac{1}{4}$ "**
Fresh Water " ... **6-6 $\frac{1}{2}$ "**
Tropical " ... **6-6 $\frac{1}{2}$ "**
Winter " ... **7-8 $\frac{1}{2}$ "**
Winter North Atlantic " ... **8-1 $\frac{1}{4}$ "**