

OLLOYD'S REGISTER OF SHIPPING
SURVEYS FOR FREEBOARD
(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER)

For LONDON OFFICE ONLY

Received
Index No.....
Govt. Copy
Owners C11.....

Ship's Name C 871	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build 1960	Port of Survey GOOLE
Moulded Dimensions: Length 142.00' Breadth 32.00' Depth 10.50' Freeboard Length 146.60' on L.W.L. Moulded displacement at moulded draught = 85 per cent. of moulded depth 950 tons (excluding bossing) Coefficient of fineness for use with Tables 0.794					Date of Survey WHILE BUILDING
Surveyor's Signature J. G. LUMLEY <i>capt completed</i>					Particulars of Classification 100A1 BARGE CARRYING PETROLEUM IN BULK. in Service in Gibraltar Harbour

DEPTH FOR FREEBOARD (D). Moulded depth ... 10.50 Stringer plate 5/16"03 Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 10.53	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = (10.53 - 9.77) 1.128 = + 0.86" (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) 32.00' Standard Round of Beam = $\frac{B \times 12}{50} =$ 7.68" Ship's Round of Beam = 6" Difference 1.68" Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{1.68}{4} = + 0.42"$
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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
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. ...	24.66	1		24.66	18.00	18.00	1		18.00
$\frac{1}{8}$ L from A.P. ...	10.97	4		43.88	6.00	6.00	4		24.00
$\frac{2}{8}$ L " ...	2.71	2		5.42	0.50	0.50	2		1.00
Amidships ...	0	4		0	0	0	4		0
$\frac{2}{8}$ L from F.P. ...	5.43	2		10.86	4.00	4.00	2		8.00
$\frac{1}{8}$ L " ...	21.94	4		87.76	18.50	18.50	4		74.00
F.P. ...	49.32	1		49.32	36.00	36.00	1		36.00
Total ...				221.90					161.00

Mean actual sheer aft =
Mean standard sheer aft =
Mean actual sheer forward =
Mean standard sheer forward =
Length of enclosed superstructure forward of amidships =
" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{60.90 \times .75}{18} = + 2.54"$
If limited on account of midship superstructure. If limited to maximum allowance of 1½ ins. per 100ft.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **10.53**
Summer freeboard = **2.77**
Moulded draught (d) = **7.76**
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ inches = **1.94 = 2"**

Addition for Winter North Atlantic Freeboard (if required) = **2 + 2 = 4"**

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta =$ **216**
Tons per inch immersion at summer load water line
T = **10.00**
Deduction = $\frac{\Delta}{40 T}$ inches = **2.04"**
= **2"**

TABULAR FREEBOARD corrected for Flush Deck (if required)
Correction for coefficient

	+	-
Depth Correction	0.86	
Deduction for superstructures		
Sheer correction	2.54	
Round of Beam correction	0.42	
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.	10.72	
Corresponding to summer mld. draught of 7.75' (Actual 7.76)	14.54	

17.26
18.71

Summer Freeboard = **33.25**

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

Tropical Fresh Water Line above Centre of Disc	NOT ASSIGNED	Tropical Fresh Water Freeboard	NOT ASSIGNED
Fresh Water Line	2	Fresh Water	2 - 7 1/4"
Tropical Line	NOT ASSIGNED	Tropical	NOT ASSIGNED
Winter Line below	2	Winter	2 - 11 1/4"
Winter North Atlantic Line	NOT ASSIGNED	Winter North Atlantic	NOT ASSIGNED

116 AUG 1960