Amended computation for reduced tanker tabular freeboard.

Rpt. C.11 (Comp.)

For LONDON OFFICE ONLY

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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
BRITISH CROWN		British LONDON		MAY 1952

Port of Survey .....

Date ~~of Survey~~ 18/9/62

Surveyor's Signature .....

Moulded Dimensions: Length 611'-0" Breadth 81.00' Depth 44.49'

Freeboard Length to ℄ rudderstock

Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 42050 tons

Coefficient of fineness for use with Tables 0.787

Particulars of Classification + 100 A1 CARRYING PETROLEUM IN BULK.

DEPTH FOR FREEBOARD (D).

Moulded depth 44.49

Stringer plate 0.09

Wood Sheathing on exposed deck

$T\left(\frac{L-S}{L}\right) =$

Depth for Freeboard (D) = 44.58

DEPTH CORRECTION.

(a) Where D is greater than Table depth (D—Table depth) R = + 11.55"

(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)

Standard Round of Beam $= \frac{B \times 12}{50} =$

Ship's Round of Beam =

Difference

Restricted to

Correction $= \frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right)$ = − 0.08"

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 .....

„ „ 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 = − 15.28"

SHEER CORRECTION.

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

$\frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} =$

$\frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} =$

$\frac{\text{Length of enclosed superstructure}}{L}$ forward of amidships =

„ „ aft of „ =

Correction $= \frac{\text{Difference between sums of products}}{18}\left(\cdot 75 - \frac{S}{2L}\right)$ = + 13.25"

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.

	Ft.
Depth to Freeboard Deck	= 44.60
Summer freeboard	= 10.71
Moulded draught (d)	= 33.89
Keel allowance	=
Extreme draught	=
Deduction for Tropical freeboard and addition for	=

Winter freeboard $= \frac{d}{4}$ inches = 8.47 = 8½"

Addition for Winter North Atlantic Freeboard (if required) = 8.47 + 6.11 = 14½"

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

Deduction $= \frac{\Delta}{40\,T}$ inches

= 9¼"

TABULAR FREEBOARD ~~corrected for Flush Deck (if required)~~ 110.26

Correction for coefficient $\frac{1.467}{1.36}$ 118.93

	+	−
Depth Correction	11.55	−
Deduction for superstructures	−	15.28
Sheer correction	13.25	−
Round of Beam correction	−	0.08
Correction for LOCAL Thickness of Deck PLATE amidships ...	0.21	
Other corrections, scantlings, etc.		
	25.01	15.36

+ 9.65

18/9/62

Summer Freeboard = 128.59

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

Tropical Fresh Water Line above Centre of Disc ...	17¾"	Tropical Fresh Water Freeboard ... 10'-8½"
Fresh Water Line „ „ ...	9¼"	Fresh Water „ ... 9'-2¾"
Tropical Line „ „ ...	8½"	Tropical „ ... 9'-11¼"
Winter Line below „ ...	8½"	Winter „ ... 10'-0"
Winter North Atlantic Line „ „ ...	14½"	Winter North Atlantic „ ... 11'-5"
		Winter North Atlantic „ ... 11'-11"

25 SEP 1962

3m,3,61. T.

(¼)

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