

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

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

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owners Cl.

Ship's Name C 871	Official Number ✓	Nationality and Port of Registry ✓	Gross Tonnage NOT YET AVAILABLE	Date of Build 1960	Port of Survey GOOLE
Moulded Dimensions: Length 142'0" Breadth 32'0" Depth 10'6" ✓ Freeboard Length 142'0" 146.6' on L.W.L. 7'-9"					Date of Survey WHILE BUILDING
Moulded displacement at moulded draught = 85 per cent. of moulded depth 950 tons					Surveyor's Signature <i>John G. Luning</i>
Coefficient of fineness for use with Tables 0.820 .794					Particulars of Classification 100A.1. BARGE CARRYING PETROLEUM IN BULK

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	10.50	(a) Where D is greater than Table depth (D-Table depth) R =	1.128	Moulded Breadth (B)	32.0
Stringer plate	5/16	(10.53 - 9.47) 1.06 = +1.16"		Standard Round of Beam = $\frac{B \times 12}{50}$	7.68
Wood Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	6
$T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures		Difference	1.68
Depth for Freeboard (D) =	10.53			Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{1.68}{4} = +0.42$

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				

FLUSH DECK

Standard Height of Superstructure	6.00'
" " R.Q.D.	
Deduction for complete superstructure	20.20"
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
A.P. 24.66	24.20	1	24.20	18'	18.00	1	18.00
1/4 L from A.P. ...	10.77	4	43.08	6'	6.00	4	24.00
1/2 L " ...	2.66	2	5.32	1/2'	0.50	2	1.00
Amidships	0	4	0	0	0	4	0
3/4 L from F.P. ...	5.32	2	10.64	4'	4.00	2	8.00
3/4 L " ...	21.54	4	86.16	18 1/2'	18.50	4	73.00
F.P. ...	48.40	1	48.40	36'	36.00	1	36.00
Total	221.90		217.80				160.00

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{57.80}{60.90 \times 18} \times .75 = +2.41"$ 2.54"

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.		Deduction for Fresh Water.		TABULAR FREEBOARD corrected for Flush Deck (if required)	
Addition for Winter and Winter North Atlantic Freeboard.				Correction for coefficient	
Depth to Freeboard Deck = 10.53		Displacement in salt water at summer load water line		14.46 + 1.50 x 1.42 = 2.20	
Summer freeboard = 2.77		Δ = 816 805		.794 0.82 + .68 = 1.50	16.58 17.26
Moulded draught (d) = 7.76		Tons per inch immersion at summer load water line		1.36	18.30 18.71
Keel allowance =		T = 10.00		1.474/1.36	
Extreme draught =		Deduction = $\frac{\Delta}{40 T}$ inches			
Deduction for Tropical freeboard and addition for =		2.04			
Winter freeboard = $\frac{d}{4}$ inches = 1.94 = 2"					
Addition for Winter North Atlantic Freeboard (if required) = 2 + 2 = 4"					

Other corrections, scantlings, etc. ... 10.96

Correcting to summer met. draught + 7.75' (Actual 7.76)

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	4"	Winter North Atlantic	3' - 1 1/4"

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.

Trade of ship

TANKER

FOR SERVICE WITHIN THE HARBOUR LIMITS OF H.M.
DOCKYARD GIBRALTAR.

Names of sister ships

Builder's name and yard number

C. CAMPBELL (GOOLE) LTD

No 16.

Owners

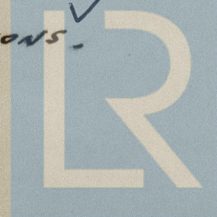
THE ADMIRALTY.

Fee £

List of plans forwarded for reference (See "Instructions to Surveyors, Part 4, 1950", paragraph 11.)

PROFILE & DECKS

STRUCTURAL SECTIONS



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Foundation