

LLOYD'S REGISTER OF SHIPPING

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SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Ship's Name "SHERIFA"	Official Number ✓	Nationality and Port of Registry BRITISH. LONDON.	Gross Tonnage 297 300. (APPROX)	Date of Build 1955.	Port of Survey BOWLING.
Moulded Dimensions: Length 110.00' Breadth 30.00' Depth 13.53'					Date of Survey WHILE BUILDING.
Freeboard Length 110.0' TO AFTER END OF STERNPOST.					Surveyor's Signature J. R. Wilson.
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 610 tons S.W.					Particulars of Classification 100 AI. FOR TOWING SERVICES (CONTEMPLATED)
Coefficient of fineness for use with Tables 68 (ACTUAL 563)					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	13.53	(a) Where D is greater than Table depth (D - Table depth) R = (13.53 - 4.33) = 9.20	5.29"	Moulded Breadth (B)	30.00
Stringer plate	32"	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 6.25		Standard Round of Beam = $\frac{B \times 12}{50}$	4.20
Wood Sheathing on exposed deck 2"				Ship's Round of Beam	7.50
$T \left(\frac{L-S}{L} \right) = \frac{11.45}{1100} \times 14 = .02$				Difference	.30
Depth for Freeboard (D) =	13.53	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.30^2}{4} \times \left(1 - \frac{1}{11} \right) = .01$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure
" overhang						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure
" overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed						" " $\frac{S_1}{L} =$
" overhang aft						" " $\frac{E}{L} =$
" overhang forward						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
F'cle enclosed						Percentage from Table, Line B. (corrected for absence of forecastle (if required))
" overhang						Interpolation for bridge less than .2L (if required)
Trunk aft						Deduction =
" forward						NIL
Tonnage opening aft						
" " forward						
Total						

SERVICE TRIM BY STERN - 5'3"

SHEER CORRECTION.

LOWEST POINT OF SHEER - 42'6" FORD. OF A.P.
SHEER AT LOWEST POINT = -1 1/2"
SHEER HEIGHTS MEASURED TO A LEVEL LINE
PARALLEL TO L.W.L. THROUGH UPPER DECK AT SIDE σ .

Station	Standard Ordinate	S	M	Product	Actual Ordinate INCHES.	Effective Ordinate	S	M	Product
A.P.	21.00	1	1	21.00	15.00	15.00	1	1	15.00
1/8 L from A.P.	9.345	4	4	37.38	4.50	4.50	4	4	18.00
2/8 L "	2.31	2	2	4.62	-1.00	-1.00	2	2	-2.00
Amidships	0	4	4	0	0	0	4	4	0
2/8 L from F.P.	4.62	2	2	9.24	9.00	4.62	2	2	9.24
1/8 L "	18.69	4	4	74.76	44.50	18.69	4	4	74.76
F.P.	42.00	1	1	42.00	72.00	42.00	1	1	42.00
Total				189.90					154.00

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{S}{2L} \right) = \frac{32.0 \times .45}{18} = +1.33"$
If limited on account of midship superstructure.

Mean actual sheer aft
Mean standard sheer aft = LESS THAN 50%

Mean actual sheer forward
Mean standard sheer forward = EXCESS.

Length of enclosed superstructure forward of amidships = } FLUSH DECK.
" " aft of " = }

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

Deduction for Fresh Water.

TABULAR FREEBOARD corrected for Flush Deck (if required)

Depth to Freeboard Deck = 13.56
Summer freeboard = 1.58
Moulded draught (d) = 11.98
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard and addition for =
Winter freeboard = $\frac{d}{4}$ inches = 2.99 = 3"
Addition for Winter North Atlantic Freeboard (if required) = NOT ASSIGNED. 2" + 3" = 5"

Displacement in salt water at summer load water line (11.95)
 $\Delta = 640$ TONS S.W.
Tons per inch immersion at summer load water line
T = 6.5.
Deduction = $\frac{\Delta}{40 T}$ inches
= 2.44
= 2 1/2"

Correction for coefficient NIL.

Depth Correction 5.29 ✓
Deduction for superstructures ✓
Sheer correction 1.033 ✓
Round of Beam correction ✓
Correction for Thickness of Deck amidships ✓
Other corrections, scantlings, etc. ✓

	+	-	
			12.65 ✓
			12.65 ✓
	5.29		
	1.033		
		.04	
		.24	
	6.62	.31	+ 6.31 ✓
Summer Freeboard =			18.96 ✓

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

Tropical Fresh Water Line above Centre of Disc	5 1/2"	Tropical Fresh Water Freeboard	1-1 1/2"
Fresh Water Line	2 1/2"	Fresh Water	1-4 1/2"
Tropical Line	3"	Tropical	1-4"
Winter Line below	3"	Winter	1-10"
Winter North Atlantic Line	5"	Winter North Atlantic	2-0"

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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.

N.B. 2" THICK WOOD SHEATHING ON FREEBOARD DECK OVER ACCOMMODATION APT
EXTENDING FROM SIDE TO SIDE OVER A LENGTH OF 11.75'.

Trade of ship TUG.

Names of sister ships

Builder's name and yard number SCOTT & SONS. - YARD NO 404.

Owners SUDAN GOVERNMENT.

Fee £ WITH F.E.

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

1. MIDSHIP SECTION.
2. PROFILE & DECKS.
3. GENERAL ARRANG.



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