

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

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

Ship's Name SADAKAT	Official Number	Nationality and Port of Registry TURKISH. ISTANBUL.	Gross Tonnage 876	Date of Build 1911 8	Port of Survey ISTANBUL
Moulded Dimensions: Length 207.80' Breadth 30.37' Depth 15.42'					Date of Survey 31/5 '16 9/6 1954
Freeboard Length					Surveyor's Signature L.T. COSLETT.
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing)					Particulars of Classification * 100 A.I.
Coefficient of fineness for use with Tables .745.					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 15.42	(a) Where D is greater than Table depth (D-Table depth) R = (15.46-13.85) 1.598 = 2.57"	Moulded Breadth (B) 30.73
Stringer plate04	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 1.61	Standard Round of Beam = $\frac{B \times 12}{50} =$ 7.38
Wood Sheathing on exposed deck		Ship's Round of Beam = 7.50
$T \left(\frac{L-S}{L} \right) =$		Difference .12
Depth for Freeboard (D) = 15.46	If restricted by superstructures ✓	Restricted to
		Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.12}{4} \times .4886 = -.01"$

DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	28.70	28.70	7.00	✓	28.70
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	60.00	54.00	7.00	✓	54.00
" overhang aft	1.88	1.41			1.41
" overhang forward	1.88	.94			.94
F'cle enclosed EQUIV.	21.21	21.21	7.50	✓	21.21
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	113.67	106.26			106.26

Standard Height of Superstructure 6.00'
" " R.Q.D. ✓
Deduction for complete superstructure 26.78"
Percentage covered $\frac{S}{L} =$ 54.70
" " $\frac{S_1}{L} =$ 51.14
" " $\frac{E}{L} =$ 51.14
Percentage from Table, Line A. ✓
(corrected for absence of forecastle (if required)) ✓
Percentage from Table, Line B. 37.14
(corrected for absence of forecastle (if required)) ✓
Interpolation for bridge less than .2L (if required) ✓
Deduction = 26.78 x .3714 = -9.95"

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	30.78	1	30.78	31.00	31.00	1	31.00
$\frac{1}{4}$ L from A.P.	13.70	4	54.80	13.80	13.80	4	55.20
$\frac{2}{8}$ L "	3.39	2	6.78	3.41	3.41	2	6.82
Amidships	0	4	0	0	0	4	0
$\frac{3}{8}$ L from F.P.	6.77	2	13.54	6.82	6.82	2	13.64
$\frac{1}{4}$ L "	27.39	4	109.56	27.59	27.59	4	110.36
F.P.	61.56	1	61.56	62.00	62.00	1	62.00
Total			277.02				279.02

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{2.00}{18} (.75 - .2735) = -.05"$

If limited on account of midship superstructure. **18 4765** If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	24.43
Addition for Winter and Winter North Atlantic Freeboard.		Correction for coefficient .745 + .68 = 1.425	25.60.
Depth to Freeboard Deck = 15.46	Displacement in salt water at summer load water line	$\frac{1.425}{1.36} =$	
Summer freeboard = 1.52	$\Delta =$		
Moulded draught (d) = 13.94	Tons per inch immersion at summer load water line		
Keel allowance =	T =		
Extreme draught =	Deduction = $\frac{40}{4}$ inches		
Deduction for Tropical freeboard and addition for =	d = 3 ½"		
Winter freeboard = $\frac{d}{4}$ inches = 3.49 = 3 ½"			
Addition for Winter North Atlantic Freeboard 3 ½ + 2 = 5 ½"			

Depth Correction	2.57	-
Deduction for superstructures	-	9.95
Sheer correction	-	.05
Round of Beam correction	-	.01
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	2.57	10.01
		- 7.44
		Summer Freeboard = 18.16

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood Steel, Deck :-			
Tropical Fresh Water Line above Centre of Disc	5"	Tropical Fresh Water Freeboard	1' - 6 ¼"
Fresh Water Line " "	3 ½"	Fresh Water	1' - 1 ½"
Tropical Line " "	1 ½"	"	1' - 2 ¾"
Winter Line below " "	1 ½"	Tropical	1' - 4 ¾"
Winter North Atlantic Line " "	3 ½"	Winter	1' - 7 ¾"
		Winter North Atlantic	1' - 9 ¾"

1906 Load lines sea-surveyed on aft of main beam line 24.7.1934

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.

Strocastle

Length at centre = 19.67'

+ Sidehouses $\frac{5.5 \times 3.5 \times 2}{25.0}$ = 1.54'

Equivalent Length = 21.21'

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £

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



© 2020

Lloyd's Register
Foundation