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Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

19 SEP 1941
Index. No. 36632
(For London Office only).

GRK. REPORT N° 21564.

Ship's Name "DARICA"	Official Number	Nationality and Port of Registry TURKISH. ISTANBUL	Gross Tonnage	Date of Build 1941	Port of Survey PORT GLASGOW
Moulded Dimensions: Length 180'-0" Breadth 40'-0" Depth 12'-9" <i>Virtual</i> 15'-0" <i>Actual.</i>					Date of Survey WHILE BUILDING
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1436. tons <i>at 85% of 12.75'</i>					Surveyor's Signature <i>J. Jamison</i>
Coefficient of fineness for use with Tables .68 (.644 actual)					Particulars of Classification +100 A.I. WITH FREEBOARD, FERRY SERVICE BATUM - ALEXANDRETTA.

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... Virtual ... 12.75	(a) Where D is greater than Table depth (D - Table depth) R = (12.75 - 12.00) x 1.385 = +1.04"	Moulded Breadth (B) 40'-0"
Stringer plate ... ✓	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50} =$ 9.6"
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam = 3"
Depth for Freeboard (D) = 12.75		Difference 6.6"
		Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{6.6}{4} \times 0.222 = +.04"$

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 ...	176.0	176.0'	2.25'	1.273/6	66.68'
Bridge enclosed ...			+ .023		
" overhang aft ...			STRINGER		
" overhang forward ...					
F'cle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	176.0'	176.0			66.68'

Standard Height of Superstructure **6.00'**
" " R.Q.D. **✓**
Deduction for complete superstructure **24.00"**
Percentage covered $\frac{S}{L} =$ **97.78**
" $\frac{S_1}{L} =$ **97.78**
" $\frac{E}{L} =$ **37.04**
Percentage from Table, Line A. **✓**
(corrected for absence of forecastle (if required)) **✓**
Percentage from Table, Line B. **24.98**
(corrected for absence of forecastle (if required)) **19.98**
Interpolation for bridge less than 2L (if required) **✓**
Deduction = **24.00 x 19.98 = -4.80"**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	18.00	1		18.00	3"	3.00	1		3.00
1/2 L from A.P. ...	12.46	4		49.84	1/4"	.25	4		1.00
2/3 L " ...	3.08	2		6.16	N/L	-	2		-
Amidships ...	-	4		-	N/L	-	4		-
2/3 L from F.P. ...	6.16	2		12.32	1/16"	.06	2		.12
1/2 L " ...	24.92	4		99.68	3/16"	.81	4		3.24
F.P. ...	56.00	1		56.00	3"	3.00	1		3.00
Total ...				252.00					10.36

Mean actual sheer aft = **Deficient**
Mean standard sheer aft = **Deficient**
Mean actual sheer forward = **Deficient**
Mean standard sheer forward = **Deficient**
Length of enclosed superstructure forward of amidships = **Does not apply; deficient sheer.**
" " aft of " = **Deficient**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{241.64}{18} (.75 - .4881) = +3.51"$
If limited on account of midship superstructure. **✓**
If limited to maximum allowance of 1 1/2 ins. per 100 ft. **✓**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	19.80
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient N/L	19.80
Depth to Freeboard Deck = 15.02	$\Delta = \frac{9.0 - 11.1}{1.0 - 1.03} = 11.31$	Depth Correction ...	1.04
Summer freeboard = 5.92	Tons per inch immersion at summer load water line	Deduction for superstructures ...	- 4.80
Moulded draught (d) = 1.10	$T = \frac{9.0 - 13.70}{10.0 - 14.44} = 13.77$	Sheer correction ...	3.51
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 2.18 = 2 1/4"	Deduction = $\frac{\Delta}{40 T}$ inches = 2.05	Round of Beam correction04
Addition for Winter North Atlantic Freeboard (if required) = ✓	= 2"	Correction for Thickness of Deck and Stanchions ...	27.28
		Other corrections, scantlings, etc. ...	44.13
		Summer Freeboard = 71.00	+51.20

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

Tropical Fresh Water Line above Centre of Disc ...	2"	Tropical Fresh Water Freeboard ...	5'-11"
Fresh Water Line ...	2"	Fresh Water ...	5'-9"
Tropical Line ...	Not assigned	Tropical ...	6'-1 1/4"
Winter Line ...	below	Winter ...	6'-1 1/4"
Winter North Atlantic Line ...	Not assigned	Winter North Atlantic ...	6'-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 FOR SERVICE BATUM - ALEXANDRETTA.

Names of sister ships "CARDAK" & "SILIVRI"

Builder's name and yard number FERGUSON BROS (PORT GLASGOW) LR No 354.

Owner THE TURKISH GOVERNMENT.

Fee £ 8-0-0.

TO BE RENDERED WITH FIRST ENTRY.



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