

BEAUFIGHTER
39883Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)United with
THE
BRITISH
CORPORATION
REGISTER.

(For London Office only.)

RONA
ex Ship's Name **M/T "SOYA-MARIA"** Official Number **✓** Nationality and Port of Registry **Swedish** Gross Tonnage **About 10471** Date of Build **1949** Port of Survey **Malmö**

Moulded Dimensions: Length **500.82'** Breadth **63.0'** Depth **38.50'** Date of Survey **Whilst building**

Moulded displacement at moulded draught = 85 per cent. of moulded depth **23010** tons Surveyor's Signature **Nikolensburg**

Coefficient of fineness for use with Tables **780** Particulars of Classification **100A1**
Carrying Petroleum in Bulk

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 38.50'	(a) Where D is greater than Table depth $(D - \text{Table depth}) R = +15.54'$	Moulded Breadth (B) 63.0'
Stringer plate ... 80" = 0.07'	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 15.12'$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 18.70"
Depth for Freeboard (D) = 38.57'		Difference 3.58'
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{3.58 \times 5884}{4} = -53'$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>Cquiv.</i>	101.01'	101.01'	7.56'	—	101.01'
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed <i>Cquiv.</i>	45.45'	45.45'	7.78'	—	45.45'
" overhang aft					
" overhang forward					
Fore enclosed	59.73'	59.73'	7.55'	—	59.73'
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	206.19'	206.19'			206.19'

Standard Height of Superstructure **7.5'**

" " R.Q.D. **—**

Deduction for complete superstructure **42.00'**

Percentage covered $\frac{S}{L} =$

" " $\frac{S_1}{L} =$ **41.16**

" " $\frac{E}{L} =$

Percentage from Table, Line A **Tanker 32.16**
(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 = **42 x 32.16 = -13.50'**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	60.08	1		60.08	45.80	45.80	1		45.80
$\frac{1}{2}L$ from A.P.	26.735	4		106.94	2.82	2.82	4		11.28
$\frac{3}{4}L$	6.61	2		13.22	0.	—	2		—
Amidships	—	4		—	0.	—	4		—
$\frac{3}{4}L$ from F.P.	13.22	2		26.44	0.	—	2		—
$\frac{1}{2}L$	53.47	4		213.88	20.60	20.60	4		82.40
F.P.	120.16	1		120.16	95.50	95.50	1		95.50
Total				540.72					234.98

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{305.74(75 - 2058)}{18} = +9.24'$

If limited on account of midship superstructure. **5442** If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **38.57**

Summer freeboard = **8.74**

Moulded draught (d) = **29.83**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **7.46 = 190**

Addition for Winter North Atlantic Freeboard (if required) = **7.46 + 5.01 = 12.47 = 317 m/m**

Deduction for Fresh Water.

Displacement in salt water at summer load water line $\Delta = 20570$

Tons per inch immersion at summer load water line $T = 66.67$

Deduction = $\frac{\Delta}{40T}$ inches = **7.69 = 195 m/m**

See over!

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **78 + 68 = 146**

Depth Correction ... **15.54**

Deduction for superstructures ... **13.50**

Sheer correction ... **9.24**

Round of Beam correction ... **53**

Correction for Thickness of Deck amidships ... **—**

Other corrections, scantlings, etc. ... **—**

+	-
15.54	13.50
9.24	53
—	—
—	—
24.78	1403

Summer Freeboard = **104.88**

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

Tropical Fresh Water Line above Centre of Disc	387.385 m/m	Tropical Fresh Water Freeboard	2667
Fresh Water Line	197.195	Fresh Water	2280
Tropical Line	190.190	Tropical	2470
Winter Line below	190.190	Winter	2475
Winter North Atlantic Line	318.317	Winter North Atlantic	2857

Tropical Fresh Water Freeboard	2665
Fresh Water	2280
Tropical	2470
Winter	2475
Winter North Atlantic	2857

Rona.

Saya Maria

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.

Moulded depth.		Total displacement.	Tons/inch immersion.
70%	26.95'	18455 tons.	65.25
75%	28.875'	19480 "	66.20
80%	30.80'	21540 "	67.14
85%	32.725'	23100 "	68.05

Trade of ship ☒

Names of sister ships

Messrs. Hockmrs Mkr. Verkestads Yard No. 304 "Boanfighter".

Builder's name and yard number

Messrs. Hockmrs Mkr. Verkestads A. B., Yard No. 305.

Owners

Messrs. Ruderi A. B. Soga, Stockholm.

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Foundation