

13 MAY 1952

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name M/T "SOYA-MARGARETA"	Official Number	Nationality and Port of Registry Swedish Stockholm	Gross Tonnage	Date of Build 1952	Port of Survey M A L M Ö
Moulded Dimensions: Length 152650 ✓ Breadth 19202 ✓ Depth 11735 ✓					Date of Survey Whilst Building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 23010 ✓ tons					Surveyor's Signature A. Over
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 ... 11735	(a) Where D is greater than Table depth (D-Table depth) R = 833(11755-10177) 30 = +394 1/4	Moulded Breadth (B) = 19202 M.
Stringer plate ... 20	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times B}{50} = 384 1/4$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 475
Depth for Freeboard (D) = 11755		Difference = +91
		Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{91}{4} \times .6883 = 13 1/4$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed EQUIV. ...	30785 ✓	30785	2380	—	30785
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed EQUIV. ...	13853 ✓	13853	2330	—	13853
„ overhang aft ...					
„ overhang forward ...					
File enclosed ...	18205 ✓	18205	2300	—	18205
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...	62843	62843			62843

Standard Height of Superstructure 2.290 M.

R.Q.D. ...

Deduction for complete superstructure 1067 1/4

Percentage covered $\frac{S}{L} =$
 $\frac{S_1}{L} =$
 $\frac{E}{L} =$
 41.17

Percentage from Table, Line A TANKER 32.17

(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 = 1067 x .3217 = -343 1/4

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	1526	1	1526	1163	1163	1	1163
1/4 L from A.P. ...	678	4	2712	72	72	4	288
1/2 L „ ...	169	2	338	0	0	2	0
Amidships ...	—	4	—	0	—	4	—
3/4 L from F.P. ...	339	2	678	0	0	2	0
3/4 L „ ...	1356	4	5424	523	523	4	2092
F.P. ...	3051	1	3051	2426	2426	1	2426
Total ...			13729				5969

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{7760(.75 - .2058)}{18} = +235 1/4$

If limited on account of midship superstructure.

Mean actual sheer aft =
 Mean standard sheer aft =

Mean actual sheer forward =
 Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

aft of „ =

Deficient.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 11.755

Summer freeboard = 2.665

Moulded draught (d) = 9.090

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48} = 189 1/4$

Addition for Winter North Atlantic Freeboard (if required) = 189 + 125 = 314

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ = 20748 tons

Tons per inch immersion at summer load water line

T = 66.66

Deduction = $\frac{\Delta}{40 T} \text{ inches} \times 2.54$

= 198 1/4

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

2228

2392

+ -

394 -

- 343

235 -

- 13

- -

629 356 + 273

Summer Freeboard = 2665 1/4

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

Tropical Fresh Water Line above Centre of Disc ...	38.7 1/4
Fresh Water Line „ „ ...	19.8
Tropical Line „ „ ...	18.9
Winter Line below „ „ ...	18.9
Winter North Atlantic Line „ „ ...	31.4

Tropical Fresh Water Freeboard	2.078
Fresh Water „	2.467
Tropical „	2.476
Winter „	2.854
Winter North Atlantic „	2.979

Soya-Margareta.

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.

Displacement, tons per inch.			
Moulded draught % of moulded depth	m/m.	Total displacement (8=1.025) tons	Tons/inch immersion.
85	9975	23100	68.05
80	9388	21540	67.14
75	8801	19980	66.20
70	8214	18455	65.25

80%	9388	21540	67.14
75%	8801	19980	66.20
	.587	1560	.94

9.090
8.801
—
.289

$\frac{289}{587} \times 1560 = 768$

$\frac{289}{587} \times .94 = .46$

$19980 + 768 = 20748$

$66.20 + .46 = 66.66$

Poof. At side. = 28985
 $\frac{2}{3} \times 2700 = \frac{1800}{30785} = \text{Equip Encl.}$

Bridge. At side = 11920
 $\frac{2}{3} \times 2900 = \frac{1933}{13853} = \text{Equip Encl.}$

Trade of ship All seas.

Names of sister ships "Svithiod", "Sirius", "Havfru", "Avance".

Builder's name and yard number Kockums Mek. Verkstads A.-B. Yard No. 343.

Owners Rederi A.-B. Soya, Stockholm.

Fee £



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