

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD.

UNITED WITH THE BRITISH CORPORATION REGISTER

(COMPUTATION FOR ~~STEAMER, SAILING SHIP, TANKER.~~) WITH ~~STEAMER~~ FREEBOARDS.

Ship's Name "Esso 5"	Official Number ✓	Nationality and Port of Registry NORWEGIAN OSLO	Gross Tonnage 703	Date of Build 1945	Port of Survey Oslo
Moulded Dimensions: Length 182.82 Breadth 38.2' Depth 11.63' To & Stock Moulded displacement at moulded draught = 85 per cent. of moulded depth Not Known tons (excluding bossing)					Date of Survey 26th April 1956 & Subsequently.
Coefficient of fineness for use with Tables. About 769 per Owners.					Surveyor's Signature <i>James J. Grant</i>
Particulars of Classification A- WITH FREEBOARD CORRESPONDING TO A SUMMER MOULDED DRAUGHT OF 8'-6" FOR COASTING SERVICE OSLOFJORD AND EAST COAST TO KRISTIANSAND, CARRYING OIL IN BULK F.P. ABOVE 150°F.					

DEPTH FOR FREEBOARD (D).			DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	...	11.63	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	38.2'
Stringer plate	...	25	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	9.17
Sheathing on exposed deck	...	-	(12.19 - 11.65) 1.407 = - .76"		Ship's Round of Beam	0
$T \left(\frac{L-S}{L} \right) =$			If restricted by superstructures Yes. NIL.		Difference	- 9.17
Depth for Freeboard (D) =		11.65			Restricted to	
					Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right)$	$\frac{9.17}{4} \times 2291 = +.53"$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)
Poop enclosed	✓				
" overhang	✓				
R.Q.D. enclosed	141.00	141.00	0.5'	0.5/3.552	19.85
" overhang	✓				
Bridge enclosed	✓				
" overhang aft	✓				
" overhang forward	✓				
F'cle enclosed	✓				
" overhang	✓				
Trunk aft	✓				
" forward	✓				
Tonnage opening aft	✓				
" forward	✓				
Total	141.00	141.00			19.85

Standard Height of Superstructure	6.00'
" " R.Q.D.	3.552'
Deduction for complete superstructure	24.29"
Percentage covered $\frac{S}{L} =$	77.09
" " $\frac{S_i}{L} =$	
" " $\frac{E}{L} =$	10.85
Percentage from Table, Line A.	5.43 - 5.0
(corrected for absence of forecastle (if required))	.43
Percentage from Table, Line B.	
(corrected for absence of forecastle (if required))	
Interpolation for bridge less than .2L (if required)	
Deduction =	24.29 x .0043 = -.10"

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	28.29	1	28.29	0	-	1	-		
1/4 L from A.P.	12.59	4	50.36	0	-	4	-		
1/2 L	3.11	2	6.22	0	-	2	-		
Amidships	-	4		0	Stated by Owners	4	-		
3/4 L from F.P.	6.22	2	12.44	0	-	2	-		
1/4 L	25.17	4	100.68	0	7.50	4	30.00		
F.P.	56.58	1	56.58	15	25.00	1	25.00		
Total			254.57				55.00		

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{199.57}{18} \left(\frac{.75 - .3645}{2 \times 182.82} \right) = + 4.04"$
If limited on account of midship superstructure.

Mean actual sheer aft
Mean standard sheer aft = } DEFICIENT.
Mean actual sheer forward
Mean standard sheer forward = }
Length of enclosed superstructure forward of amidships = } > .1
" " aft of " = }

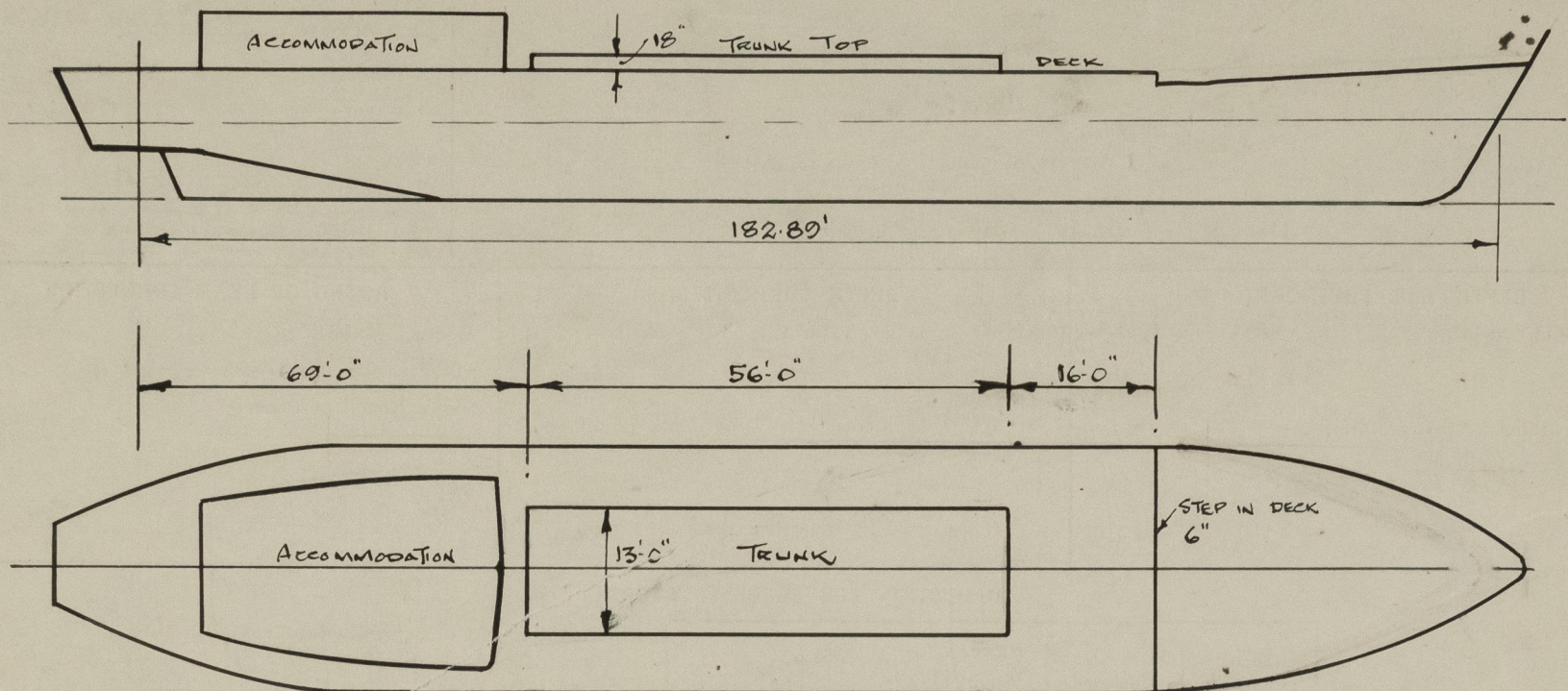
Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	
Addition for Winter and Winter North Atlantic Freeboard.		Correction for coefficient $\frac{.769 + .68}{1.36} = 1.449 / 1.36$	20.26
Depth to Freeboard Deck = 12.15'	Displacement in salt water at summer load water line		21.59
Summer freeboard = 3.65'	$\Delta = \text{STATED } 1280 \text{ Tons @ } 1.025$	Depth Correction	
Moulded draught (d) = 8.50'	Tons per inch immersion at summer load water line	Deduction for superstructures	
Keel allowance =	T = Not Known	Sheer correction	
Extreme draught =	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction	
Deduction for Tropical freeboard and addition for		Correction for Thickness of Deck amidships	
Winter freeboard = $\frac{d}{4}$ inches = 2.13' = 2'4"		Other corrections, scantlings, etc.	
Addition for Winter North Atlantic Freeboard (if required) =		A SUMMER MOULDED DRAUGHT OF 8'-6".	

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

Tropical Fresh Water Line above Centre of Disc	NOT ASSIGNED	Tropical Fresh Water Freeboard	3'-7 3/4" 1111 mm.
Fresh Water Line	2 1/4" 57 mm.	Fresh Water	3'-5 1/2" 1054 mm.
Tropical Line	NOT ASSIGNED	Tropical	NOT ASSIGNED.
Winter Line below	2 1/4" 57 mm.	Winter	3'-10" 1168 mm.
Winter North Atlantic Line	NOT ASSIGNED.	Winter North Atlantic	NOT ASSIGNED.

Essso 5.

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 COASTING SERVICE

Names of sister ships ✓

Builder's name and yard number FLEMING & FERGUSON LTD. Paisley No. 673 (L.C.G.)

Owners A/S NORSKE ESSO

Fee £ 360



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Lloyd's Register
Foundation