As Tanker

Report No. 11b (Spl).

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD—STEAMERS.

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
Schwarzes Meer					100 A1 carrying petroleum in bulk

Number in Register Book _____

Moulded dimensions $330.62 \times 46.5 \times 25.5$

Moulded displacement at a moulded draught of 85 per cent. of moulded depth _____

Coefficient of fineness for use with tables assumed .76

DEPTH FOR FREEBOARD.

Moulded depth	25.50	
Stringer plate	.05	
Sheathing in wells $T\left(\dfrac{L-S}{L}\right)=$	-	
Depth $D=$ ...	25.55	

CORRECTION FOR LENGTH.

(a) When D is greater than $\dfrac{L}{15}$

$\left(D-\dfrac{L}{15}\right)\times R = (25.55-22.04)\times 2.5430 = +8.92$

(b) When D is less than $\dfrac{L}{15}$ (if allowed).

$\left(\dfrac{L}{15}-D\right)\times R =$ ... ...

If restricted by height of superstructures ... ...

SUPERSTRUCTURES.

	Mean Covered Length S.	Equivalent Enclosed Length S₁.	Height.	Correction for Height.	Effective Length.
Poop enclosed	98.33	98.33	7.5	-	98.33
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed	28.75	28.75	8.0	-	28.75
" overhang ...					
Trunks forward $193.57 \times \frac{24.17}{46.5}$	-	88.03	8.0	× 6.0/6.806	77.60
" aft $10.17 \times \frac{19.59}{46.5}$	-	4.28	6.0	× 6.0/6.806	3.77
Tonnage opening					
TOTAL =	127.08	219.39			208.45
Length of ship (L) =	330.62	330.62			330.62
% Covered ... ... =	38.43%	66.36%			63.04%

Corresponding %, corrected for absence of forecastle if required } A— Tanker B= 55.34%

Correction for Bridge less than .2L if required }

Allowance ... = 37.37 × .5584 = − 20.68

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S.M.	Products.
A.P. 1	50.50	43.08	50.50	1	50.5
2	22.50	19.16	22.50	4	90.0
3	5.65	4.74	5.65	2	11.3
4	—	—	—	4	
5	10.55	9.47	10.55	2	21.1
6	42.25	38.33	42.25	4	169.0
F.P. 7	107.20	86.12	107.00	1	101.0
				18)	442.9

If excess sheer forward and deficient sheer aft

$\dfrac{\text{Actual sheer aft}}{\text{Standard sheer aft}} =$

$\dfrac{\text{Actual sheer forward}}{\text{Standard sheer forward}} =$

$\dfrac{\text{Length of enclosed superstructure}}{L}$

Forward of amidships =

Aft of amidships =

Mean effective sheer...	=	24.60
Standard sheer .05L + 5 =	=	21.53
Difference (Df)	=	3.07
Allowance = Df × $\left(.75 - \dfrac{S}{2L}\right)$ = 3.07 (.75 − .192)	=	− 1.71
If limited on account of amidship superstructure ...	=	
If limited on account of excess sheer (1½ in. per 100 ft.) ...	=	

ROUND OF BEAM.

Standard	11.16	
Ship	11.50	
Difference	.34	
Restricted to		
Allowance = $\dfrac{\text{Difference}}{4} \times \left(1 - \dfrac{S_1}{L}\right)$ = $\frac{34}{4} \times .336 = -.03$		

TABULAR FREEBOARD (corrected for flush deck if required)

Corrected for Coefficient $\dfrac{.76 + .68}{1.36} =$

Correction for Length	
" Superstructures	
" Sheer	
" Round of beam	
" Thickness of deck	
" Scantlings, etc.	
" Statutory deck line	

25.55
3.04
22.51 Summer M.W.

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Ste...

Fresh Water Line	above centre of Disc	...	...	
Indian Summer Line	" " "	...		
Winter Line	below " "	...	Freebo...	
Winter North Atlantic Line	" " "		S.B....	