No. 11b (Spl).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD—STEAMERS.

Index No. 24927 (For London Office only.)

Port of Survey

Date ~~of Survey~~ 3-3-31

Name of Surveyor

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
GULFQUEEN.	CAMDEN N.J.			1919	+100 A.1. CARRYING PETROL IN BULK.

Number in Register Book

Moulded dimensions 419.25 × 56.25 × 33.33

Moulded displacement at a moulded draught of 85 per cent. of moulded depth NOT YET RECEIVED.

Coefficient of fineness for use with tables

DEPTH FOR FREEBOARD.

Moulded depth	33.33
Stringer plate	.06
Sheathing in wells $T\left(\frac{L-S}{L}\right)$ =	✓
Depth **D** =	33.39

CORRECTION FOR LENGTH.

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

$\left(D-\frac{L}{15}\right)\times R$ = (33.39 − 27.95) × 3.0 = +16.32

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

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

If restricted by height of superstructures

SUPERSTRUCTURES.

	Mean Covered Length S.	Equivalent Enclosed Length S_1.	Height.	Correction for Height.	Effective Length.
Poop enclosed	101.00	101.00	8'-0"	✓	101.00.
" overhang					
R.Q.D. enclosed					
" overhang			8'-0"	✓	18.20.
Bridge ~~enclosed~~ OPEN	36.40	✓			
" overhang aft			8'-0"	✓	30.05
" overhang forward					
F'cle ~~enclosed~~ OPEN	34.50	✓			
" overhang					
Trunks forward					
" aft					
Tonnage opening					
TOTAL =	171.90	101.00			149.25
Length of ship (**L**) =	419.25	419.25			419.25
% Covered =	41.00%	24.09%			35.60%.

FORWARD SHEER

	A.	S.		A.	S.
	-	-	1	-	-
	10.07	11.42	3	30.21	34.26
	40.29	46.22	3	120.87	138.66
	90.00	103.86	1	90.00	103.86
				241.08	276.78

$\frac{241.08}{276.78}$ = 87.10%.

FCLE = 34.50 × .871
= 30.05

Corresponding %, corrected for absence of forecastle if required } A = 42.00

TANKER ~~B~~ = 26.60% × .266 = Correction for Bridge less than .2**L** if required } TANKER. = −11.17

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	31.00	51.93	31.00	1	31.00
2	10.27	23.11	10.27	4	41.08
3	2.56	5.71	2.56	2	5.12
4	-	-	-	4	-
5	10.07	11.42	10.07	2	20.14
6	40.29	46.22	40.29	4	161.16
F.P. 7	90.00	103.86	90.00	1	90.00
				18	348.50

Mean effective sheer ... = 19.36

Standard sheer .05**L** + 5 = 25.97

Difference (**D**f) ... = 6.61

Allowance = **D**f × $\left(.75-\frac{S}{2L}\right)$ = 6.61 × (.75 − .205) = +3.6

If limited on account of amidship superstructure ... = ✓

If limited on account of excess sheer ($1\frac{1}{2}$ in. per 100 ft.) ... = ✓

If excess sheer forward and deficient sheer aft :—

$\frac{\text{Actual sheer aft}}{\text{Standard sheer aft}}$ = deficient

$\frac{\text{Actual sheer forward}}{\text{Standard sheer forward}}$ = deficient 87.1%.

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

Forward of amidships = } TANKER.

Aft of amidships = }

ROUND OF BEAM.

Standard	13.50.
Ship	13.25.
Difference	.25.
Restricted to	
Allowance = $\frac{\text{Difference}}{4}\times\left(1-\frac{S_1}{L}\right)$ =	$\frac{.25}{4}$ × .759 = +.04.

TABULAR FREEBOARD (corrected for flush deck if required) = 67.21.

Corrected for Coefficient × $\frac{+.68}{1.36}$ =

	+	−
Correction for Length	16.32	-
" Superstructures	-	11.17
" Sheer	3.60	-
" Round of beam	.04	-
" Thickness of deck	✓	✓
" Scantlings, etc.	✓	✓
" Statutory deck line	✓	✓
	19.96	11.17

Summer Freeboard = +8.79.

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, ~~Wood~~ (Steel) Deck :—

Fresh Water Line	above centre of Disc	
Indian Summer Line	" "	
Winter Line	below "	
Winter North Atlantic Line	" "	

1906 T8DS { S = 8'-0¾" W = 8'-6¾"

5a2.97.

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