

b (Spl).

Index No. 29920
(For London Office only.)

Port of Survey

Date of Survey 24/4/31

Name of Surveyor

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.
<u>San Ubaldo</u>					<u>+100A1. Carrying petroleum in bulk.</u>

Number in Register Book

Moulded dimensions 411.6' x 53.08' x 31.0'

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

Coefficient of fineness for use with tables

Not yet received

DEPTH FOR FREEBOARD.

Moulded depth	...	...	...	...	...	31.0
Stringer plate	...	...	...	...	...	.06
Sheathing in wells $T \left(\frac{L-S}{L} \right) =$	...	...	...	...	...	-
Depth D =	...	...	...	...	...	31.06

CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$	
$\left(D - \frac{L}{15} \right) \times R = \left(31.06 - \frac{411.6}{15} \right) \times 3.62 = -10.86$	+ 10.86
(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	110.5	110.5	7-6	-	110.5
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	34.41	17.35	7-6	-	14.35
" overhang aft					
" overhang forward					
Fore enclosed	40.30	40.30	7-6	-	40.30
" overhang	4.70	2.35			2.35
Trunks forward					
" aft					
Tonnage opening					

TOTAL =

Length of ship (L) = 411.6
% Covered ... = 46.2% = 41.42%

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

B = 32.42

Correction for Bridge less than 2L if required }

Allowance ... = 42.0 x 32.42 = 13.61

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	46.5	51.16	46.5	1	46.5
2	18.76	22.76	18.76	4	75.04
3	4.69	5.63	4.69	2	9.38
4	-	-	-	4	-
5	10.64	11.26	10.64	2	21.28
6	42.55	45.52	42.55	4	170.20
F.P. 7	103.0	102.32	103.00	1	103.00

If excess sheer forward and deficient sheer aft :-

Actual sheer aft = deficient
Standard sheer aft
Actual sheer forward = deficient
Standard sheer forward

Length of enclosed superstructure L

Forward of amidships = Yankee
Aft of amidships =

Mean effective sheer ... = 23.63
Standard sheer .05L + 5 = 25.58
Difference (Df) = 1.95
Allowance = $Df \times \left(.75 - \frac{S}{2L} \right) = 1.95 \times \left(.75 - \frac{51.9}{2 \times 411.6} \right) = +1.01$
If limited on account of amidship superstructure ... =
If limited on account of excess sheer ($1\frac{1}{2}$ in. per 100 ft.) ... =

ROUND OF BEAM.

Standard	...	...	...	...	12.73
Ship	...	...	...	...	11.0
Difference	...	...	...	...	1.73
Restricted to	...	...	...	...
Allowance = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S_1}{L} \right) =$	...	...	...	...	<u>.432 x .586 = +.25</u>

TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient	$\frac{+ .68}{1.36} =$	
Correction for Length	...	10.86
" Superstructures	...	1.01
" Sheer	...	.25
" Round of beam	...	
" Thickness of deck	...	
" Scantlings, etc.	...	
" Statutory deck line	...	

Summer Freeboard =

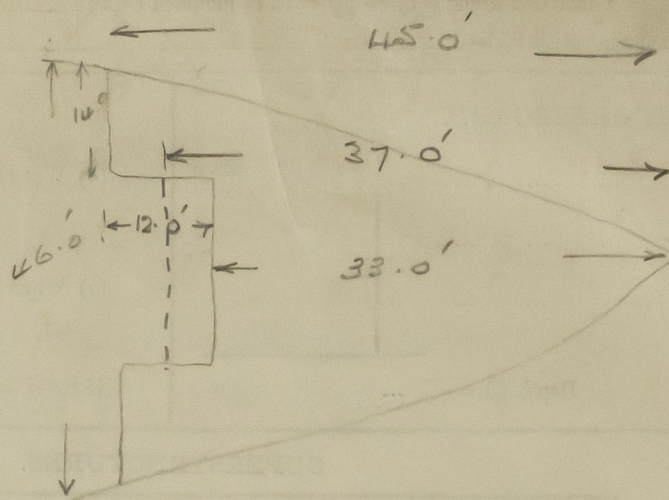
FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck :-

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

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Equivalent Bld $12.0 \times \frac{28}{46} = 7.30 + 33.0 = 40.30$

