

Lloyd's Register of Shipping
SURVEYS FOR FREEBOARD-STEAMERS

(Under the Provisions of the U. S. A. Load Line Act of March 2, 1929)

New York Office Index No. 207
Port of Survey...BALTIMORE, Md.
Date of Survey...Nov. 20, 1935
Name of Surveyor...C. Hastie..

Ship's Name. **ING GULF** Port of Registry and Nationality. **BOSTON U.S.A.** Official Number. **216767** Gross Tonnage. **5438** Date of Build. **1918 8 mo.** Particulars of Classification. **+100 A1**
Builder...**New York S. B. Corp.** Hull No. **192**
Moulded dimensions **377.33 x 55 x 34.42** (85% = **29.26**)
Moulded displacement at a moulded draught of 85 per cent. of moulded depth...**13320 tons**
Coefficient of fineness for use with tables...**.768**

FREEBOARD. **CORRECTION FOR DEPTH.** **CAMBER**
Depth **D** = **34.42** (a) When **D** is greater than $\frac{L}{15}$
 $(D - \frac{L}{15}) \times R = (34.42 - 25.15) \times 2.903 = 9.33 \times 2.903 = 27.08$
Standard $\frac{55 \times 12}{50} = 13.20$
Ship ... **13.75**
Difference ... **.55**
Restricted to ...
Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S_1}{L}) = \frac{.55}{4} \times .653 = .09$

SUPERSTRUCTURES.

Mean Covered Length S	Effective Length S ₁ (Uncorrected for Height)	Height	Correction for Height	Effective Length
26.50	26.50	8 ft.	-	26.50
67.50	67.50	8 ft.	-	67.50
8.00	6.00			6.00
31.00	31.00	8 ft.	-	31.00
TOTAL = 133	131			131
Length of ship (L) = 377.73	377.73			377.73
Covered... = 35.25	34.71			34.71
Corrected for A = 19.0035	B = 23.0035	Correction for Bridge less than 2 L if required = 22.896		
Allowance ... = 40.49	.22896	= 9.27		

SHEER.

Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
1 6.7 5	4 7.7 3	1 6.7 5	1	1 6.7 5
1 1.7 0	2 1.0 0	1 1.7 0	4	1 6.8 0
4 0	5.2 5	4 0	2	2 .8 0
5.8 5	1 0.5 0	5.8 5	4	1 1.7 0
2 3.4 0	4 2.0 0	2 3.4 0	2	9 3.6 0
3 1.0 0	9 5.4 6	8 1.0 0	4	8 1.0 0
			1	
			18)	210.65
			=	11.70
			=	23.87
			=	12.17
			< $(.75 - \frac{S}{2L}) = 12.17 \times (.75 - .176) = 4$	6.99
			Amount of amidship superstructure	=
			Amount of excess sheer (1½ in. per 100 ft.)	=

If excess sheer forward and deficient sheer aft:-
Actual sheer aft =
Standard sheer aft =
Actual sheer forward =
Standard sheer forward =
Length of enclosed superstructure $\frac{73.5}{377.33} = 19.48\%$
Forward of amidships =
Aft of amidships =

RAFTS. **F. W. ALLOWANCE** **TABULAR FREEBOARD** (corrected for flush deck if required) = **64.60**
Displacement = **34' 5"** Corrected for Coefficient $\frac{768 + .68}{1.36} = 1.36$ = **68.78**
Tons per inch = **34' 5 1/4"**
27' 2 1/2"
2 1/2"
base line **27' 5"**
40 x =
Correction for Depth ... **27.08**
" Superstructures ... **9.27**
" Sheer ... **6.99**
" Camber ... **.09**
" Thickness of deck **BOT 1906**
" Scantlings, etc. **Special Type**
34.07 **15.63** **+ 18.44**
Summer Freeboard = **87.22**

FREEBOARD amidships from Centre of Disc to top of Deck Line. Wood, Steel, Deck:-
Tropical Fresh Water Line (above center of Disc) **13 1/2"** Tropical Fresh Water Freeboard ... **7' 3 1/2"**
Fresh Water Line " " **6 1/2"** Fresh Water " " **6' 1 1/2"**
Tropical Line " " **6 1/2"** Tropical " " **6' 1 1/2"**
Winter Line (below " ") **6 1/2"** Winter " " **7' 10"**
Winter North Atlantic Line " " **7 1/2"** Winter North Atlantic " " **7' 11"**
so that vessel's freeboard will not be less than Tanker Freeboard
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Note:—The Rules referred to below are the Load Line Regulations of the United States Department of Commerce (These should be consulted when completing the report.)

Is the poop or raised quarter deck connected with the bridge? **No**
Has the poop or raised quarter deck an efficient steel bulkhead at the fore end? **Yes**
Give particulars of the means of closing the openings in this bulkhead (Rules 43 and 44). **Hinged Steel W.T. Doors**
Has the bridge an efficient steel bulkhead at the fore end? **Yes**
Give particulars of the means of closing the openings in this bulkhead **Hinged Steel W. T. doors (two)**
Has the bridge an efficient steel bulkhead at the after end? **Yes**
Give particulars of the means of closing the openings in this bulkhead **Hinged Steel W. T. doors (three)**
Has the forecastle an efficient steel bulkhead at the after end? **Yes**
Give particulars of the means of closing the openings in this bulkhead **Hinged Steel W. T. doors (two)**
Are the engine and boiler openings covered by a bridge, poop, raised quarter-deck, or enclosed by a strong steel deckhouse? **Yes, by S.A. Co.**
If the openings are not so protected, are the exposed parts of the casing efficiently constructed? **-**
Give thickness of plating, scantlings and spacing of stiffeners **-**
Are Rules Nos. 19, 20, 21 and 22 complied with (where applicable)? **Yes**

Particulars of bulkheads of erections:

	Poop or Raised Quarter-Deck bulkhead	Bridge front bulkhead	Bridge after bulkhead	
Thickness of bulkhead plating	3/8"	7/16"	3/8"	
Scantlings of stiffeners	10"x3 1/4"x3/8 [ch	7"x3 1/2"x7/16" Ls	7"x3 1/2"x7/16" Ls	7"x3 1/2"x3/4"
Spacing of stiffeners, and if bracketed	33" T & B	25 1/2" (ang.) T & B	28" Top	34"
Height of sills of openings above deck	14" above hatch trunk	24 1/2"	18"	

Particulars of weather deck hatchways.

(In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces Class 2 appliances or in open bridges).

No. 1								
No. 2 to 9								
No. 10								
Position and Size.	22'1"x13'8 1/2"x28'3 1/2"		15'9"x28'3 1/2"		13'7"x25'2 1/2"x28'3 1/2"			
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Height above top of DECK	36"		36"		36"			
COAMING Thickness	Sides.....	9/16	9/16		9/16			
	Ends.....	9/16	9/16		9/16			
SHIFTING BEAMS OR WEB PLATES.	Number.....							
	Section and Scantlings.....							
	Material.....							
* FORE AND AFTERS.	Number.....							
	Section and Scantlings.....							
	Material.....							
HATCHES Thickness	All steel hatch covers 7/16" plate stiffened by channels Ls 12" x 3" x							
Remarks.....								

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

Are Rules 12, 13, 14, 15, 16, 17, 18 complied with as far as practicable? **Yes (all steel hatch covers)**
Are hatchway coamings stiffened in accordance with Rule 9? **Yes**

Length of bulwarks in wells—forward **146'6"** feet; aft **105'10"** feet.

Area of freeing ports required by regulations (Rules 30 and 100) forward: _____ sq. ft.; aft: _____ sq. ft.

No. Ft. X Ft.

Particulars of freeing ports fitted { forward } _____ sq. ft. **50% open rails**
on each side of vessel { well } _____
{ after } _____
{ well } _____ sq. ft.

Are Rules 23 and 24 complied with as far as practicable? **Yes**

Are air pipes to tanks in accordance with Rule 25? **Yes**

Are all scuppers and sanitary discharge pipes in accordance with Rule 27? **Yes**

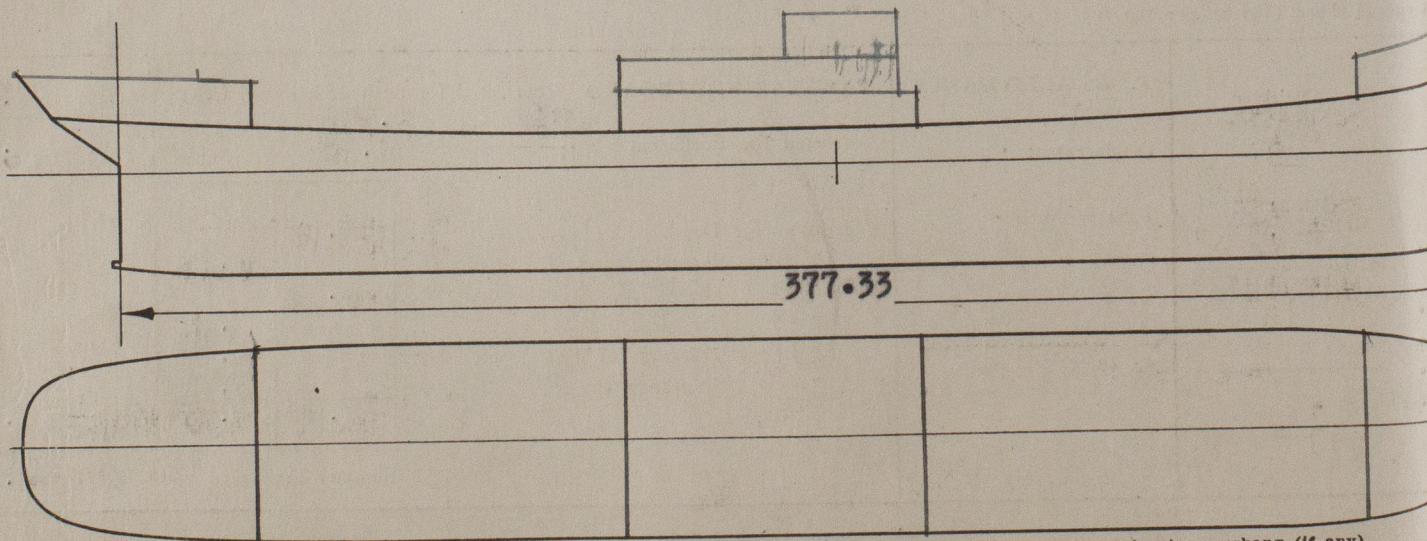
Special Type

In oil tankers, what is the extent of the fore and aft gangway? **Poop & Bridge**
Is the gangway strong and efficiently braced fore and aft? **Yes** State spacing of supports _____ feet.

In oil tankers, are the bulwarks open for at least half the length of the exposed portion of the weather deck? (Rule 100). **Yes**

Are Rules Nos. 95, 97, 98 and 99 complied with as far as practicable? **-**

If the vessel has a complete superstructure deck with a tonnage opening, is the latter fitted with efficient temporary covers? **-**



Sister vessels:

Fee: **\$80.00**

Expenses (if any)

\$4.00 - N.Yk. A/c
\$6.00 - Balt. A/c

(signed) **C. HAS**
Surveyor to Lloyd's

Foundation