

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.....

Port of Survey.....

Date of Survey.....

Name of Surveyor.....

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
IG GULF	BOSTON U.S.A.	216767	5438	1918-8	+100 A1
in Register Book. 36581					

Builder.. New York, S. B. Corp..
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

FOR FREEBOARD.	CORRECTION FOR DEPTH.	CAMBER
34.42	(a) When D is greater than $\frac{L}{15}$ $(D - \frac{L}{15}) \times R = (34.42 - 23.81) \times 2.903 = 9.33 \times 2.903 = 27.08$	Standard $\frac{55 \times 12}{50} = 13.20$ Ship 13.75 Difference55
.06	(b) When D is less than $\frac{L}{15}$ (if allowed). $(\frac{L}{15} - D) \times R = \dots$	Restricted to Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S_1}{L}) = \frac{.55}{4} \times (1 - \frac{.06}{34.42}) = .1375 \times .9824 = .1352$
Depth D = 34.48	If restricted by height of superstructures	

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S ₁ (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
sed	2 6.50	2 6.50	8 ft.	-	2 6.50
ang					
sed					
ang					
ed	6 7.50	6 7.50	8 ft.	-	6 7.50
ang aft	8.00	6.00			6.00
ang forward					
ed	3 1.00	3 1.00	8 ft.	-	3 1.00
ang					
rd					
g					

TOTAL = 133 131 131
Length of ship (L) = 377.73 377.73 377.73
% Covered... = 35.25 34.71 34.71
%, corrected for castle if required } A = 19.0035 B = 23.0035
Allowance ... = 40.49 x .22896 = 9.27
Correction for Bridge less than .2 L if required } 22.896

SHEER.

Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
1 6.7 5	4 7.7 5	1 6.7 5	1	1 6.7 5
1 7.0 0	2 1.0 0	1 7.0 0	4	6.8 0
4 0	5.2 5	4 0	2	8.0
			4	
5.8 5	1 0.5 0	5.8 5	2	1 1.7 0
2 3.4 0	4 2.0 0	2 3.4 0	4	9 3.6 0
8 1.0 0	9 5.4 6	8 1.0 0	1	8 1.0 0

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 =

sheer ... 18) 210.65
11.70
23.87
12.17
 $\times (.75 - \frac{S}{2L}) = 12.17 \times (.75 - .176) = 6.99$
count of amidship superstructure ...
count of excess sheer (1 1/2 in. per 100 ft.) ...

DRAFTS.	F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required)
34' 5" $\frac{5}{8}$ "	Displacement = 12370	Corrected for Coefficient $\frac{768}{1.36} = 564.71$
34' 5 1/2" $\frac{5}{8}$ "	Tons per inch = 41.8	Correction for Depth ... 27.08
7' 3 1/4" $\frac{5}{8}$ "	12370	" Superstructures ... 6.99
27' 2 1/2" $\frac{5}{8}$ "	40 x 41.8 = 1672	" Sheer09
base line 2 1/2" $\frac{5}{8}$ "	say 7 1/2" $\frac{5}{8}$ "	" Camber09
27' 5" $\frac{5}{8}$ "		" Thickness of deck BOT 1906 Special Type 5.28
		" Scantlings, etc. ... 34.07
		Summer Freeboard = 87.22

FREEBOARD amidships from Centre of Disc to top of Deck Line	Deck:-
Tropical Fresh Water Line (above center of Disc) 14 1/2"	Tropical Fresh Water Freeboard
Fresh Water Line " " 7 1/2"	Fresh Water
Tropical Line " " 6 3/4"	Tropical
Winter Line (below " ") 6 3/4"	Winter
Winter North Atlantic Line " " 7 1/4"	Winter North Atlantic

so that vessel's freeboard will not be less than Tanker Freeboard

Lloyd's Register
Foundation

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**
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 1/2"x3/8" Ls	7"x3 1/2"x7/16" Ls	7"x3 1/2"x7/16" Ls
Spacing of stiffeners, and if bracketed	33" T & B	25 1/2" (ang.) T & B	28" Top
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 particulars of 2nd deck hatchways, and also of those in bridge spaces Class 2 appliances, or in open bridges).

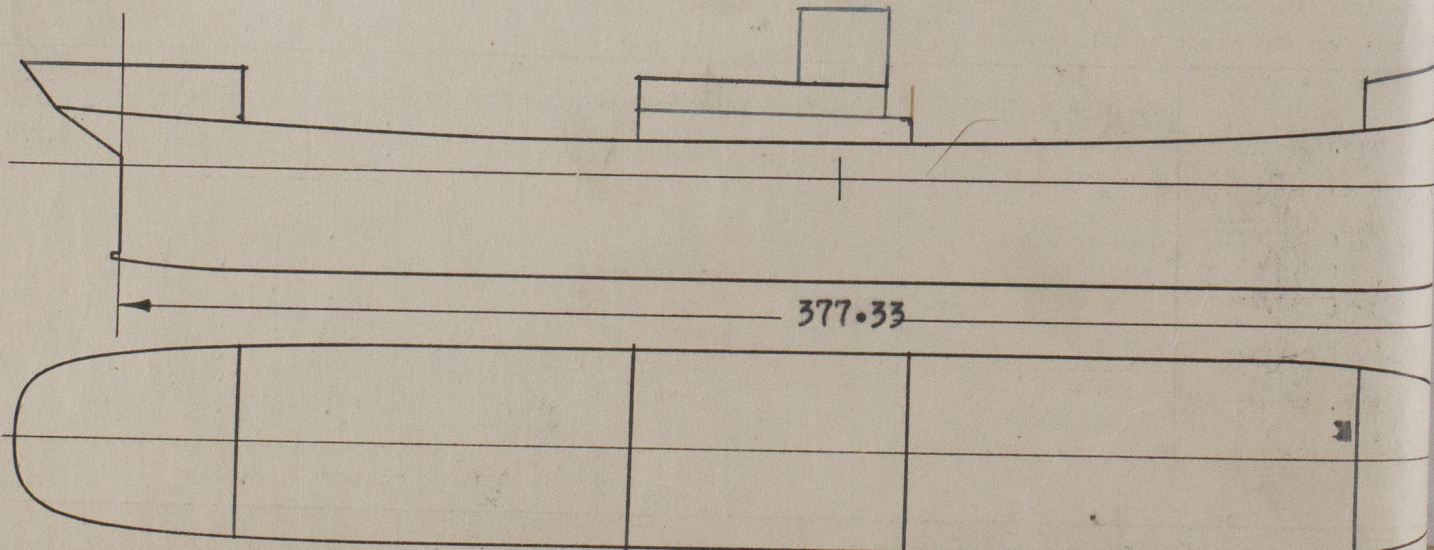
No. 1		No. 2 to 9		No. 10	
Position and Size.		22'1"x13'8 1/2"x28'3 1/2"		13'7"x25'2 1/2"x28'3 1/2"	
Item.		Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	36"		36"	
	Thickness	9/16		9/16	
	Sides.....	9/16		9/16	
SHIFTING BEAMS OR WEB PLATES.	Number.....				
	Section and Scantlings.....				
	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"			
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 well } _____ = _____ sq. ft. **50% Open Rails**
on each side of vessel { 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 **Special Type** what is the extent of the fore and aft gangway? **Poop & Bridge**
Is the gangway strong and efficiently braced fore and aft? **Yes**
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?



Indicate thickness and extent of any deck covering, and extent of erections, with dimensions, showing overhang (if any).
Indicate position of scuppers from tonnage-exempted spaces above freeboard deck.

Sister vessels:

Fee: **\$80.00**

Expenses (if any) **\$2.00**

See previous Report and correspondence attached