

26038

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

FREEBOARD.	CORRECTION FOR DEPTH.		CAMBER
	(a) When D is greater than $\frac{L}{15}$	(b) When D is less than $\frac{L}{15}$ (if allowed).	
Depth D = <b>34.48</b>	$(\frac{D-L}{15}) \times R = \frac{(34.48 - 25.15) 2.903}{9.33} = 2.903$	$(\frac{L-D}{15}) \times R = \dots$	Standard $\frac{55 \times 12}{50} = 13.20$
$\frac{3}{4}$ " = <b>.06</b>	<b>27.08</b>		Ship ... <b>13.75</b>
			Difference ... <b>.55</b>
			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 <sub>1</sub> (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 =	<b>133</b>	<b>131</b>	<b>131</b>
Length of ship (L) =	<b>377.73</b>	<b>377.73</b>	<b>377.73</b>
Covered... =	<b>35.25</b>	<b>34.71</b>	<b>34.71</b>
Corrected for list if required } A =	<b>19.0035</b>	B = <b>23.0035</b>	Correction for Bridge less than 2 L if required } <b>22.896</b>
Allowance ... =	<b>40.49</b>	<b>.22896</b>	<b>= 9.27</b>

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
1.7 0	2 1.0 0	1.7 0	4	6.8 0
.4 0	5.2 5	.4 0	2	.8 0
5.8 5	1 0.5 0	5.8 5	4	1 1.7 0
3.4 0	4 2.0 0	3.4 0	2	9 3.6 0
1.0 0	9 5.4 6	1.0 0	4	8 1.0 0
			1	

If excess sheer forward and deficient sheer aft:—

Actual sheer aft / Standard sheer aft =

Actual sheer forward / Standard sheer forward =

Length of enclosed superstructure / L =  $\frac{73.5}{377.33} = 19.48\%$

Forward of amidships =

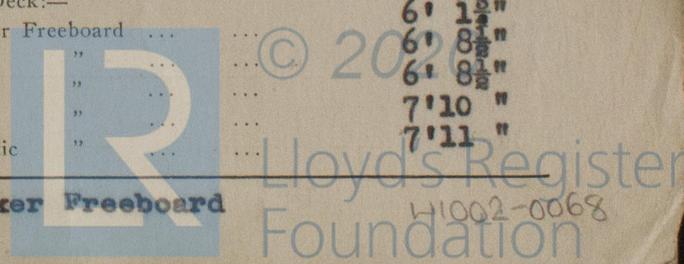
Aft of amidships =

18) <b>210.65</b>	=	<b>11.70</b>
<b>L + 5 =</b>	=	<b>23.87</b>
<b>(.75 - <math>\frac{S}{2L}</math>) = 12.17 x (.75 - .176) = 6.99</b>	=	<b>12.17</b>
Amount of amidship superstructure	=	<b>6.99</b>
Amount of excess sheer (1 1/2 in. per 100 ft.)	=	<b>-</b>

RAFTS.	F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required) = <b>64.60</b>
<b>34' 5"</b>	Displacement =	Corrected for Coefficient $\frac{768 + .68}{1.36} = 564.63$ = <b>68.78</b>
<b>34' 5 3/4"</b>	Tons per inch =	Correction for Depth ... <b>27.08</b>
<b>7' 3 3/4"</b>		" Superstructures ... <b>9.27</b>
<b>27' 2 1/2"</b>		" Sheer ... <b>6.99</b>
<b>2 1/2"</b>		" Camber ... <b>.09</b>
base line	40 x	" Thickness of deck <b>Bot 1906</b>
<b>27' 5"</b>		" Scantlings, etc. <b>Special Type</b>
		<b>34.07</b>   <b>15.63</b>   <b>+ 18.44</b>
		Summer Freeboard = <b>87.22</b>

FREEBOARD amidships from Centre of Disc to top of Deck Line	Deck:—	<b>7' 3 1/4"</b>
Tropical Fresh Water Line (above center of Disc)	Tropical Fresh Water Freeboard	<b>6' 1 1/2"</b>
Fresh Water Line	Fresh Water	<b>6' 1 1/2"</b>
Tropical Line	Tropical	<b>6' 1 1/2"</b>
Winter Line (below " " )	Winter	<b>7' 10"</b>
Winter North Atlantic Line	Winter North Atlantic	<b>7' 11"</b>

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



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	<u>3/8"</u>	<u>7/16"</u>	<u>3/8"</u>
Scantlings of stiffeners	<u>10"x3 1/4"x3/8 [ch</u>	<u>7"x3 1/2"x7/16" Ls</u>	<u>7"x3 1/2"x7/16" Ls</u>
Spacing of stiffeners, and if bracketed	<u>33" T &amp; B</u>	<u>25 1/2" (ang.) T &amp; B</u>	<u>28" Top</u>
Height of sills of openings above deck	<u>14" above hatch trunk</u>	<u>24 1/2"</u>	<u>18"</u>

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).

Position and Size.	No. 1		No. 2 to 9		No. 10	
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Item.						
Height above top of DECK	<u>36"</u>		<u>36"</u>		<u>36"</u>	
COAMING Thickness	Sides.....	<u>9/16</u>	<u>9/16</u>		<u>9/16</u>	
	Ends.....	<u>9/16</u>	<u>9/16</u>		<u>9/16</u>	
SHIFTING BEAMS OR WEB PLATES.	Number.....					
	Section and Scantlings.....					
	Material.....					
* FORE AND AFTERS.	Number.....					
	Section and Scantlings.....					
	Material.....					
HATCHES Thickness	<u>All steel hatch covers 7/16" plate stiffened by channels Ls 12" x 3" x</u>					
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 on each side of vessel  
 forward } \_\_\_\_\_ sq. ft. 50% open rails  
 well }  
 after } \_\_\_\_\_ sq. ft.  
 well }

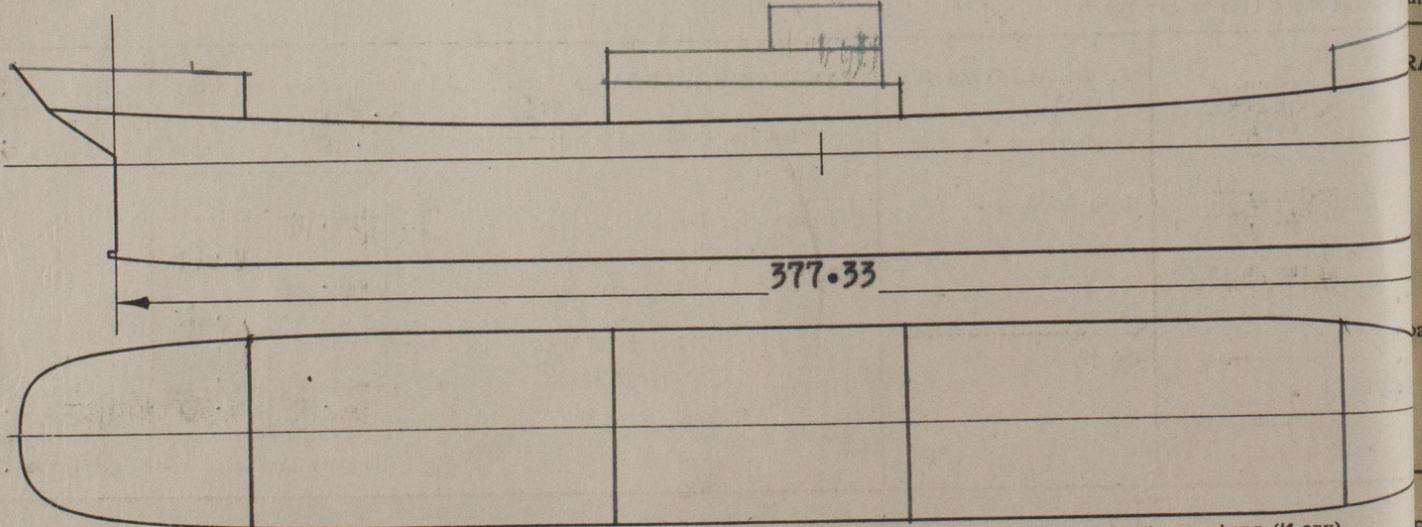
Are Rules 23 and 24 complied with as far as practicable? Yes  
 Are air pipes to tanks in accordance with Rule 25? Yes

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.

**Special Type**  
 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) \_\_\_\_\_

\$1.00 - N.Yk. A/c  
 \$6.00 - Balt. A/c

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

Lloyd's Register Foundation