

24927

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. 98
Port of Survey... New York
Date of Survey... April 29, 1931
Name of Surveyor... A. F. Allen

Ship's Name. <i>S.S. "Gulf Queen"</i>	Port of Registry and Nationality. <i>Port Arthur Texas</i>	Official Number. <i>217775</i>	Gross Tonnage. <i>6599</i>	Date of Build. <i>1919-4</i>	Particulars of Classification. <i>1100 A1. "Carr. Pktn bulk"</i>
Number in Register Book... <i>72408</i>		Builder... <i>New York S. B. Corp.</i>		Hull No. <i>196</i>	
Owner... <i>Gulf Refining Co. Inc.</i>					
Moulded dimensions <i>419.25</i> x <i>56.25</i> x <i>33.33</i> $\div 65\% = 28.33$					
Moulded displacement at a moulded draught of 85 per cent. of moulded depth... <i>15410 Tons</i>					
Coefficient of fineness for use with tables... <i>807</i>					

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth	33.33	(a) When D is greater than $\frac{L}{15}$	27.95	Standard	$\frac{56.25 \times 12}{50} = 13.50$
Stringer plate	(.64)	$(D - \frac{L}{15}) \times R = (33.33 - 28) \times 3 = 15.99$	16.29	Ship	14.00
Sheathing in wells		(b) When D is less than $\frac{L}{15}$ (if allowed).		Difference	.50
$T(\frac{L-S}{L}) =$		$(\frac{L}{15} - D) \times R =$		Restricted to	.50
Depth D =	33.33	If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = \frac{.50}{4} \times \frac{.64}{.64} = .08$	

SUPERSTRUCTURES.					
	Mean Covered Length S	Effective Length S ₁ (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	101.00	101.00	8 ft	✓	101.00
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	36.00	18.00	8 ft	✓	18.00
" overhang aft					
" overhang forward					
F'dle enclosed	34.00	29.92	8 ft	✓	29.92
" overhang					
Trunks forward					
" aft					
Tonnage opening	171.90	149.65			149.65
TOTAL =	171.00	148.92			148.92
Length of ship (L) =	419.25	419.25			
% Covered... =	40.79%	35.52%			
Corresponding %, corrected for absence of forecastle if required	41%	35.70%			
Allowance ... =	42	26.52%			

Correction for Bridge less than 2 L if required = -11.14 - 11.21

SHEER.					
Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	31.50	51.93	31.50	1	31.50
2	22.00	23.15	22.00	4	88.00
3	1.50	5.71	1.50	2	3.00
4				4	
5	11.00	11.42	11.00	2	22.00
6	40.50	46.30	40.50	4	162.00
F.P. 7	90.00	103.86	90.00	1	90.00
Mean effective sheer ...				18	396.50
Standard sheer .05 L + 5 =					22.03
Difference (Df) ...					26.00
Allowance = Df x ($.75 - \frac{S}{2L}$) =					3.97
If limited on account of amidship superstructure ...					6.38
If limited on account of excess sheer (1 1/2 in. per 100 ft.) ...					✓

If excess sheer forward and deficient sheer aft:—

Actual sheer aft = 88.25
Standard sheer aft = 88%
Actual sheer forward = 244.5
Standard sheer forward = 277.02
∴ allow 88% of open Fx.

Length of enclosed superstructure L = 396.50
Forward of amidships = ✓
Aft of amidships = ✓

DRAFTS.		F. W. ALLOWANCE		TABULAR FREEBOARD (corrected for flush deck if required) =	
Moulded Depth D =	33' - 4"	Displacement =	14450	Corrected for Coefficient	$\frac{.807 + .68}{1.36} = \frac{1.487}{1.36} = 1.093$
Stringer Plate =	34"	Tons per inch =	49.0	Correction for Depth ...	16.29
Freeboard	6' - 10"			" Superstructures ...	11.14
Moulded draught	26' - 6 1/2"			" Sheer ...	2.17
Addition for keel below base line	2 1/4"			" Camber04
Extreme draught	26' - 9 1/2"			" Thickness of deck ...	
				" Scantlings, etc. ...	
				Summer Freeboard =	80.57

FREEBOARD recommended amidships from centre of Disc to top of Deck Line, Wood (Steel) Deck:—					
Tropical Fresh Water Line above centre of Disc					
Fresh Water Line					
Tropical Line					
Winter Line					
Winter North Atlantic Line					

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/ I-beams
Has the bridge an efficient steel bulkhead at the fore end? No - open
Give particulars of the means of closing the openings in this bulkhead ✓
Has the bridge an efficient steel bulkhead at the after end? No - open
Give particulars of the means of closing the openings in this bulkhead ✓
Has the forecastle an efficient steel bulkhead at the after end? No - open
Give particulars of the means of closing the openings in this bulkhead ✓
Are the engine and boiler openings covered by a bridge, poop, raised quarter-deck, or enclosed by a strong steel deckhouse? Covered by p
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	Forecastle bulkhead
Thickness of bulkhead plating	<u>7/16" beam angle 7/16"</u>			
Scantlings of stiffeners				
Spacing of stiffeners, and if bracketed	<u>30" - Yes</u>	<u>Open</u>	<u>Open</u>	<u>Open</u>
Height of sills of openings above deck	<u>19"</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 closed by Class 2 appliances, or in open bridges).

Position and Size.	7101 10'-0" x 15'-0"		18 O.T. Hatches		10 O.T. Hatches		2 O.T. Hatches		2 O.T. Hatches	
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING. Height above top of DECK	<u>24"</u>	<u>On ch of Ship</u>	<u>24"</u>		<u>24"</u>	<u>on Sides</u>	<u>24"</u>		<u>42"</u>	<u>on ch</u>
Thickness	Sides.....	<u>1/2"</u>	<u>1/2"</u>		<u>7/16"</u>		<u>7/16"</u>		<u>7/16"</u>	
	Ends.....	<u>1/2"</u>	<u>1/2"</u>		<u>7/16"</u>		<u>7/16"</u>		<u>7/16"</u>	
SHIFTING BEAMS OR WEB PLATES.	Number.....									
	Section and Scantlings.....	<u>✓</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>	
	Material.....									
* FORE AND AFTERS.	Number.....	<u>✓</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>	
	Section and Scantlings.....									
	Material.....									
HATCHES Thickness	<u>7/16"</u>		<u>3/8"</u>		<u>3/8"</u>		<u>3/8"</u>		<u>3/8"</u>	
Remarks.....	<u>Steel</u>		<u>Steel</u>		<u>Steel</u>		<u>Steel</u>		<u>Steel</u>	

* 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

Are hatchway coamings stiffened in accordance with Rule 9? Yes

Length of bulwarks in wells—forward: _____ feet; aft: _____ 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.
on each side of vessel { after well } Open Rails _____ 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

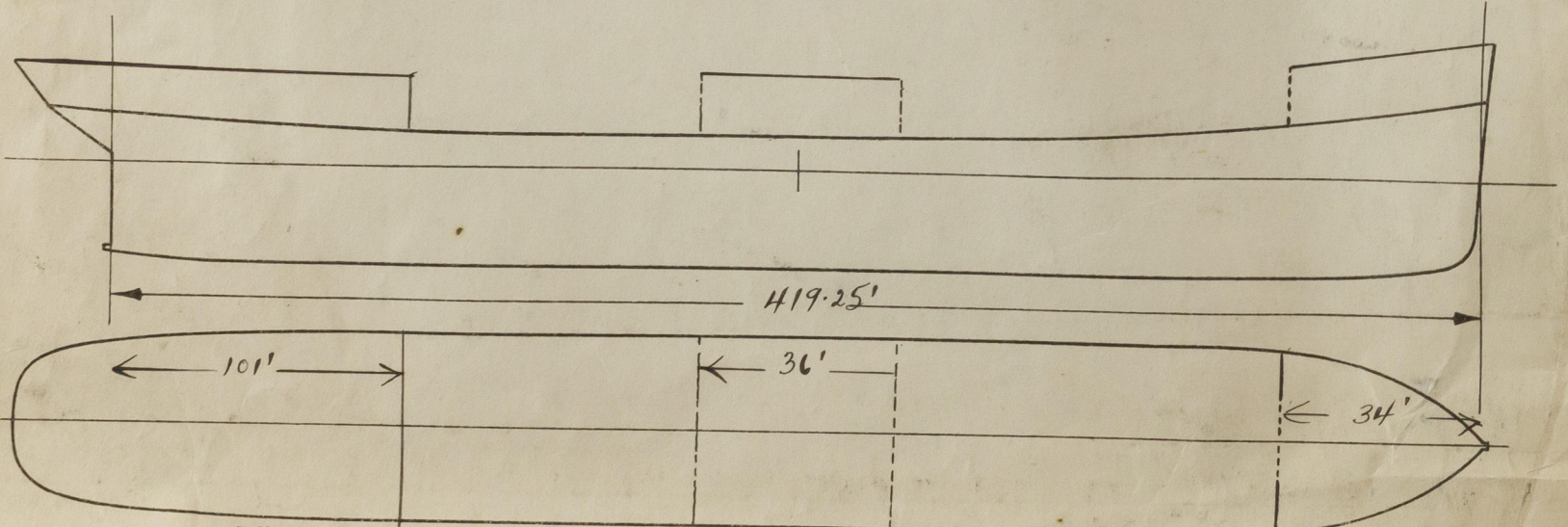
In oil tankers, what is the extent of the fore and aft gangway? Bridge to Poop

Is the gangway strong and efficiently braced fore and aft? Yes Are the crew berthed in the forecastle? (Rule 96) No

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

Are Rules Nos. 95, 97, 98 and 99 complied with as far as practicable? Yes open rails

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 vessel ✓

Fee: \$90.00

Expenses (if any) ✓

(Signed) Albert H. Allen
Surveyor to Lloyd's Register of Shipping.