

23 DEC 1936

25109

# 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. 243  
 Port of Survey... New York  
 Date of Survey... Oct. Nov. 1936  
 Name of Surveyor... R. G. Kennedy

S.S. R. G. Stewart  
 M.S. Number in Register Book... 82472  
 Port of Registry and Nationality... Wilmington Del U.S.A.  
 Official Number... 214951  
 Gross Tonnage... 9530  
 Date of Build... 1917-6  
 Particulars of Classification... +100A1 Shelter deck with freeboard carrying Petroleum in bulk.  
 Owner... Standard Oil Co. of N.Y.  
 Builder... New York A.B. Corp.  
 Hull No... 170  
 Moulded dimensions... 468' x 62'50" x 39'50" (95% = 33'58")  
 Moulded displacement at a moulded draught of 85 per cent. of moulded depth... 23135 Tons  
 Coefficient of fineness for use with tables... 824

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth	39.50	(a) When D is greater than $\frac{L}{15}$		Standard	$\frac{62.5 \times 12}{50} = 15.00$
Stringer plate	.07	$(D - \frac{L}{15}) \times R = (39.57 - 31.20) \times 3 = 25.11$		Ship	14.91
Sheathing in wells		(b) When D is less than $\frac{L}{15}$ (if allowed)		Difference	.09
$T \left( \frac{L-S}{L} \right) =$		$(\frac{L}{15} - D) \times R =$		Restricted to	
Depth D =	39.57	If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = \frac{.09}{4} = +.02$	

### SUPERSTRUCTURES.

	Mean Covered Length S.	Effective Length S. (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunks forward					
" aft					
Tonnage opening					
Total =					

*Flush deck*

If a 7% forecastle were fitted the allowance would be  
 $42 \times .049 = 2.06"$

Length of ship (L) =   
 % Covered... =   
 Corresponding %, corrected for absence of forecastle if required } A =   
 Allowance ... =  B =   
 Correction for Bridge less than 2 L if required } Tankers (does not apply)

### SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	48.00	56.00	48.00	1	48.00
2	20.83		20.83	4	83.32
3	5.21		5.21	2	10.42
4				4	
5	11.75		11.75	2	23.50
6	47.00		47.00	4	188.00
F.P. 7	108.00	113.60	108.00	1	108.00

If excess sheer forward and deficient sheer aft:—

Actual sheer aft / Standard sheer aft =  Deficient  
 Actual sheer forward / Standard sheer forward =  Deficient

Length of enclosed superstructure

Forward of amidships =  Tanker  
 Aft of amidships =

Mean effective sheer ... =  $\frac{18) 461.24}{25.62}$   
 Standard sheer .05 L + 5 =  $\frac{28.40}{2.78}$   
 Difference (Df) ... =  $2.78 \times .75 = +2.09$   
 Allowance =  $Df \times (.75 - \frac{S}{2L}) = 2.78 \times .75 = +2.09$   
 If limited on account of amidship superstructure ... =   
 If limited on account of excess sheer (1/2 in. per 100 ft.) ... =

### DRAFTS.

Moulded Depth D = 39' 6"  
 Stringer Plate = 3/4"  
 Freeboard = 10' 3 1/2"  
 Moulded draught = 29' 3 1/4"  
 Addition for keel below base line = 2 1/2"  
 Extreme draught = 29' 5 3/4"

### F. W. ALLOWANCE

Displacement = 20060  
 Tons per inch = 61.18  
 $\frac{20060}{40 \times 61.18} = 82$   
- 8 1/4"

### TABULAR FREEBOARD (corrected for flush deck if required)

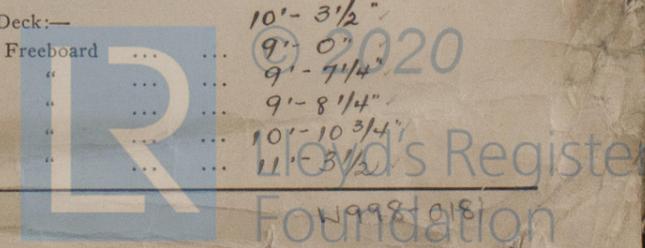
	+	-
Corrected for Coefficient	$\frac{824 + .68}{1.36} = 1.504$	$\frac{1.504}{1.36} = 1.106$
Correction for Depth	25.11	
" Superstructures absence of forecastle	2.06	
" Sheer	2.09	
" Camber	.02	
" Thickness of deck		
Penalty for Scantlings, etc. and conditions	6.07	
	35.35	

Summer Freeboard = 123.50

### SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Shelter Deck:—

Keel	Tropical Fresh Water Line (above center of Disc)	15 1/2"	Tropical Fresh Water Freeboard	10' - 3 1/2"
Starboard	Fresh Water Line	8 7/8"	Fresh Water	9' - 0"
Keel	Tropical Line	7 1/4"	Tropical	9' - 7 1/4"
Starboard	Winter Line (below " )	7 1/4"	Winter	9' - 8 1/4"
Keel	Winter North Atlantic Line	12"	Winter North Atlantic	10' - 10 3/4"
Starboard				11' - 3 1/2"

2-52-2 1/2"



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? Flush shelter deck  
 Has the poop or raised quarter deck an efficient steel bulkhead at the fore end? ✓  
 Give particulars of the means of closing the openings in this bulkhead (Rules 43 and 44) ✓  
 Has the bridge an efficient steel bulkhead at the fore end? House only  
 Give particulars of the means of closing the openings in this bulkhead ✓  
 Has the bridge an efficient steel bulkhead at the after end? ✓  
 Give particulars of the means of closing the openings in this bulkhead Steel door to companionway to deck below.  
 Has the forecastle an efficient steel bulkhead at the after end? ✓  
 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? 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 3/8" 9" x 3 1/2" x 3/8" L spaced 24" + 30"  
 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				
Scantlings of stiffeners				
Spacing of stiffeners, and if bracketed				
Height of sills of openings above deck				

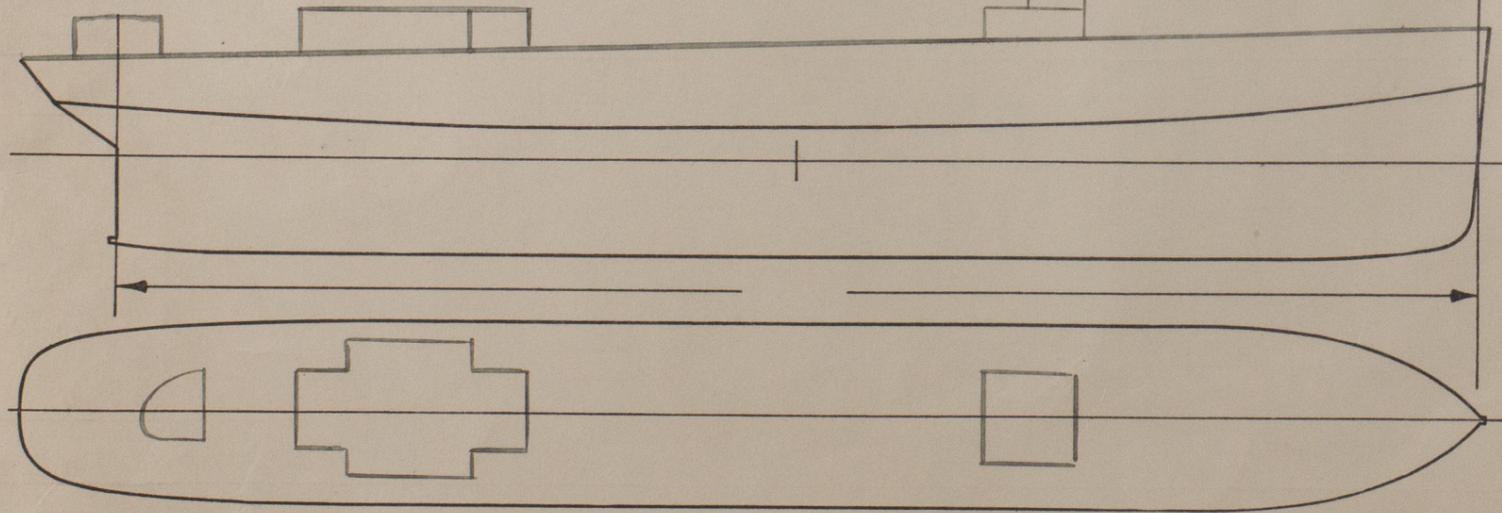
Particulars of weather deck hatchways. (In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

Position and Size.	Dry Cargo Hatch		No 1 Cofferdam		20 Main Hatchway		Summer Tank Hatchway		Ship.	Rule.
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.		
COAMING: Height above top of DECK	25"		23"		30"		30"			
Thickness	Sides		7/16" x 4' 0" dia		7/16" x 4' 0"		7/16" x 4' 0"			
	Ends	Steel	Steel		Steel		Steel			
		Bolted covers	Hinged cover		Hinged cover		Hinged cover			
SHIFTING BEAMS OR WEB PLATES.	Number									
	Section and Scantlings									
	Material									
* FORE AND AFTERS.	Number									
	Section and Scantlings									
	Material									
HATCHES Thickness										
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  
 Are hatchway coamings stiffened in accordance with Rule 9? Yes  
 Length of bulwarks in wells—forward: \_\_\_\_\_ feet; aft: \_\_\_\_\_ feet. Open rails  
 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.  
 on each side of vessel { after } 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 machinery casing Are the crew berthed in the forecastle? (Rule 96) Berthed aft  
 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? Yes

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: Cities Service Boston  
 Fee: \$100.00 Expenses (if any) \_\_\_\_\_

(Signed)

© 2020  
  
 J.M. Belton  
 Surveyor to Lloyd's Register of Shipping  
 Lloyd's Register Foundation

requires  
 attend  
 of  
 on the  
 (a) pr  
 crew's  
 that no  
 culation

Fee  
 Surve  
 should  
 the orig  
 5M 3-33