

WRECK SECT 10
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 J. H. Belton
R. G. L. Kennedy

S.S. M.S. R. G. Stewart
Number in Register Book 82472
Port of Registry 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" (85% = 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
$T(\frac{L-S}{L}) =$		$(\frac{L}{15} - D) \times R =$		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					

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

Total =
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

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

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

DRAFTS.		F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required)	
Moulded Depth D =	39' 6"	Displacement = 20060	Corrected for Coefficient $\frac{824 + .68}{1.36} = \frac{1.504}{1.36}$	79.70 88.15
Stringer Plate = (or Wood Deck)	39' 6 3/4"	Tons per inch = 61.18	Correction for Depth ...	
Freeboard	10' 3 1/2"		" Superstructures absence of forecastle	25.11 2.06
Moulded draught	29' 3 1/4"		" Sheer	2.09
Addition for keel below base line	2 1/2"	$\frac{20060}{40 \times 61.18} = 8.2$	" Camber	.02
Extreme draught	29' 5 3/4"	- 8 1/4"	" Thickness of deck	6.07
			Reality for Scantlings, etc. and conditions	35.35
				+ 35.35
				Summer Freeboard = 123.50

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood , Steel, <i>Shelter</i> Deck:—					10' - 3 1/2"
		Tropical Fresh Water Line (above center of Disc)	15 1/2" ✓	Tropical Fresh Water Freeboard	9' - 0" ✓
		Fresh Water Line	" " " 8 1/4" ✓	Fresh Water	" " " 9' - 7 1/4" ✓
Starboard	.68	Tropical Line	" " " 7 1/4" ✓	Tropical	" " " 9' - 8 1/4" ✓
Keel	1.10	Winter Line (below " ")	" " " 7 1/4" ✓	Winter	" " " 10' - 10 3/4" ✓
Starboard	.74	Winter North Atlantic Line	" " " 12" ✓	Winter North Atlantic	" " " 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 fore-castle 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	Fore-castle bulkhead
Thickness of bulkhead plating				
Scantlings of stiffeners				
Spacing of stiffeners, and if bracketed				
Height of sills of openings above deck				

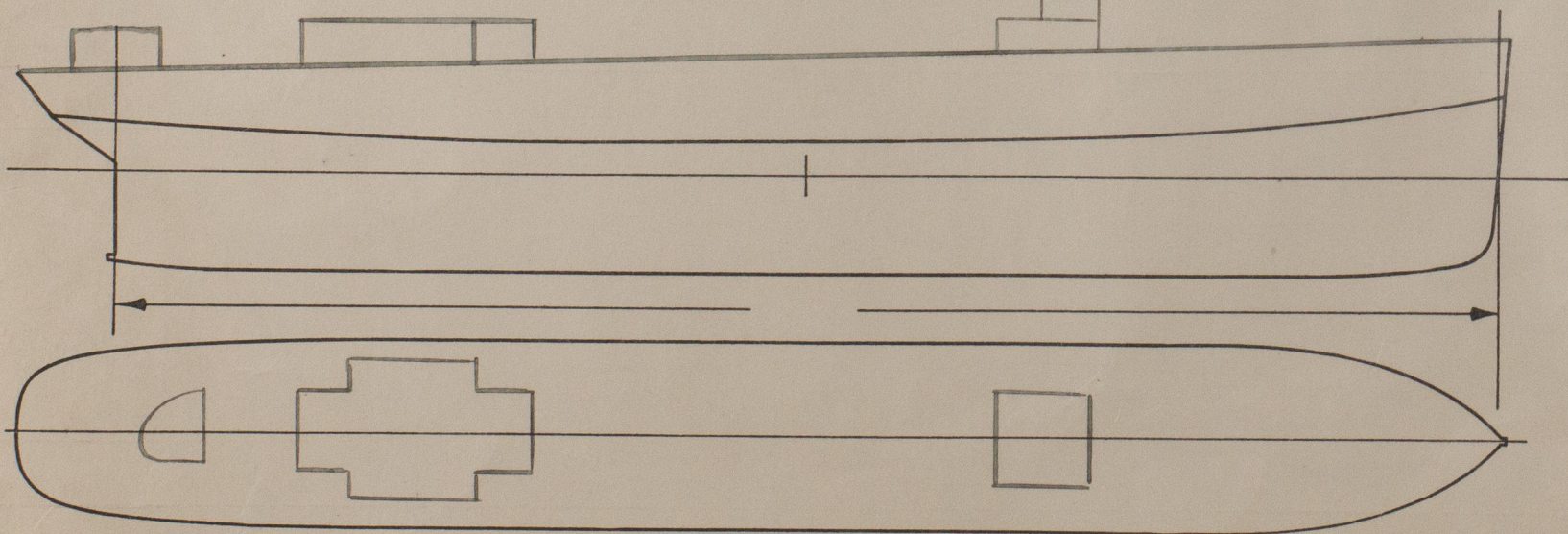
Particulars of weather deck hatchways.

(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.	<u>Dry Cargo Hatch</u>		<u>No 1 Cofferdam</u>		<u>20 Main Hatchway</u>		<u>Summer Tank Hatchway</u>			
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING: Height above top of DECK	<u>25"</u>		<u>23"</u>		<u>30"</u>		<u>30"</u>			
Thickness { Sides.....	<u>Steel</u>		<u>7/16 x 4' 0" dia</u>		<u>7/16 x 4' 0"</u>		<u>7/16 x 4' 0"</u>			
Ends.....										
SHIFTING BEAMS OR WEB PLATES.	<u>Bolted covers</u>		<u>Steel</u>		<u>Steel</u>		<u>Steel</u>			
Number.....			<u>Hinged cover</u>		<u>Hinged cover</u>		<u>Hinged cover</u>			
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 { well } Open rails
{ 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
In oil tankers, what is the extent of the fore and aft gangway? Bridge to Are the crew berthed in the fore-castle? (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)

J. M. Belton

Surveyor to Lloyd's Register of Shipping

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