

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.....Newport News, Va.
 Date of Survey.....May 26, 1948. & subsequent dates.
 Name of Surveyor.....J. G. Buchanan,
 John Sim
 P. S. Haagensen.

Ship's Name. S.S. "OAKLEY L. ALEXANDER" EXS. (EX "LACONIA VICTORY")	Port of Registry and Nationality. Wilmington, Del. U.S.A.	Official Number. 247479	Gross Tonnage. 7751	Date of Build. 1945	Particulars of Classification 100 A-1 Class contemplated.
Number in Register Book.....	U.S.A.				
Owner...Pocahontas Steamship Co.	Builder...Bethlehem Fairfield Shipyard.				Hull No...2457
Moulded dimensions	437.69 × 62.0 × 38.0	(85% =)			
Moulded displacement at a moulded draught of 85 per cent. of moulded depth	17230 tons.				
Coefficient of fineness for use with tables	.688				

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth	38.00	(a) When D is greater than $\frac{L}{15}$		Standard	$\frac{62 \times 12}{50} = 14.88$
Stringer plate .94" & doubler	1.00 1.25	$(D - \frac{L}{15}) \times R = (38.16 - 24.18) 3.00$	26.94	Ship (equivalent)	5.85
Sheathing in wells		(b) When D is less than $\frac{L}{15}$ (if allowed)		Difference	9.03
$T \left(\frac{L-S}{L} \right) =$		$(\frac{L-D}{15}) \times R =$		Restricted to	
Depth D =	38.16	If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) =$	+1.81

SUPERSTRUCTURES

	Mean Covered Length S.	Effective Length S ₁ (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	37.00	87.00		9.0'	87.00
" overhang				3.0'	
Trunks forward } NOT EFFICIENT	102.00			5.0'	
" aft }	121.50				
Tonnage opening					
Total =	87.00	87.00			87.00

Length of ship (L) = 437.69
 % Covered = 19.88
 Corresponding %, corrected for absence of forecastle if required } A = 9.94
 Allowance ... = 9.94 × 42.00 = -4.17

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	66.38	53.77	53.77	1	53.77
2	32.25	23.93	23.93	4	95.72
3	1.25	5.92	5.92	2	11.84
4	-	-	-	4	-
5	-	11.84	11.84	2	-
6	20.06	46.85	20.54	4	82.16
F.P. 7	48.01	107.54	66.00	1	66.00

If excess sheer forward and deficient sheer aft:-
 $\frac{\text{Actual sheer aft}}{\text{Standard sheer aft}} = \text{EXCESS}$
 $\frac{\text{Actual sheer forward}}{\text{Standard sheer forward}} = \text{DEFICIENT.}$

Mean effective sheer ... = 17.19
 Standard sheer .05 L + 5 = 26.88
 Difference (Df) = 9.69
 Allowance = $Df \times (.75 - \frac{S}{L}) = 9.69 (75 - .099) = +6.31$
 If limited on account of amidship superstructure ... = -
 If limited on account of excess sheer (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)	83.28
Moulded Depth D = 38'-0"	Displacement = 15225	Corrected for Coefficient $\frac{.688 + .68}{1.36} = \frac{1.38}{1.36}$	84.50
Stringer Plate = .94" 2.19" (or Wood Deck) Doubler 1.25"	Tons per inch = 51.25	Correction for Depth ... 26.94	
Freeboard 38'-2 1/4" 9'-8 1/4"		" Superstructures ... 6.31	
Moulded draught 28'-6"	15225 = 7 1/2"	" Sheer ... 1.81	
Addition for keel below base line 3/4"		" Camber02	
Extreme draught 28'-6 3/4"		" Thickness of deck84	
		" Scantlings, etc TO CORRESPOND WITH DRAUGHT PREVIOUSLY PERMITTED BY AMERICAN BUREAU	35.92
			4.17 + 31.75
			Summer Freeboard = 116.25

Top of doubler 1 1/4" above.
 SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, UPPER Deck:-
 Tropical Fresh Water Line (above center of Disc) 14 1/2"
 Fresh Water Line " " 7 1/2"
 Tropical Line " " 7"
 Winter Line (below " ") 7"
 Winter North Atlantic Line " " "

9'-8 1/4"
 8'-5 3/4"
 9'-0 3/4"
 9'-1 1/4"
 10'-3 3/4"
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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? None }
 Has the poop or raised quarter deck an efficient steel bulkhead at the fore end? None } Ship not fitted with poop or bridge.
 Give particulars of the means of closing the openings in this bulkhead (Rules 43 and 44) None }
 Has the bridge an efficient steel bulkhead at the fore end? Yes }
 Give particulars of the means of closing the openings in this bulkhead 18" dia. ports with hinged lights secured by wing nuts.
 Has the bridge an efficient steel bulkhead at the after end? Yes. }
 Give particulars of the means of closing the openings in this bulkhead W.T. doors secured by dogs and having 18" sills.
 Has the forecastle an efficient steel bulkhead at the after end? Yes. }
 Give particulars of the means of closing the openings in this bulkhead Steel doors secured by bolts and dogs.
 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 plating 14.02# Stiffeners 4" x 3" x 7.2# inverted L spaced 36" apart.
 Are Rules Nos. 19, 20, 21 and 22 complied with (where applicable)? -

Particulars of bulkheads of erections:

	Poop or Raised Quarter-Deck Bulkhead	deckhouse Bridge/ front bulkhead	deckhouse, Bridge/ after bulkhead	Forecastle bulkhead
Thickness of bulkhead plating	<u>None</u>	<u>19.1#</u>	<u>14.02#</u>	<u>14.02#</u>
Scantlings of stiffeners	<u>"</u>	<u>8" x 3" x 13.7#</u>	<u>6" x 2 1/2" x 12#</u>	<u>4" x 3" x 7.2# inv.L</u>
Spacing of stiffeners, and if bracketed	<u>"</u>	<u>30" Max.</u>	<u>36"</u>	<u>36"</u>
Height of sills of openings above deck	<u>"</u>	<u>-</u>	<u>18"</u>	<u>-</u>

Particulars of weather deck hatchways.

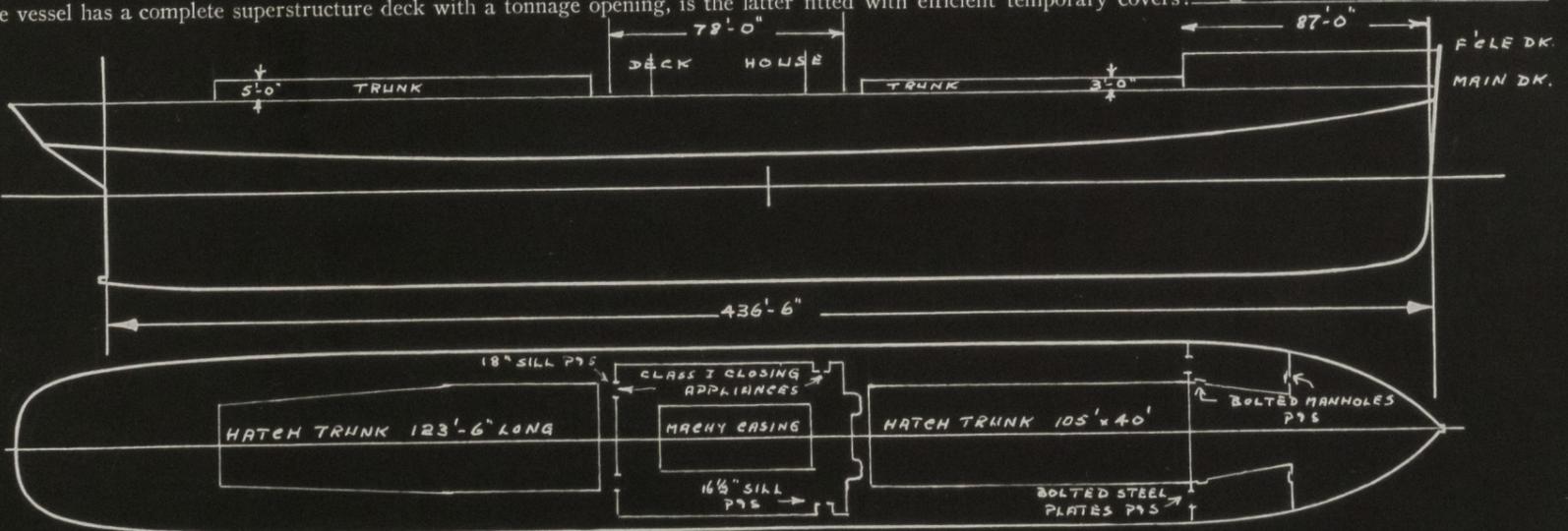
(In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

Position and Size.	Fore Deck				Main Deck							
	No.1 & 2, 13' long	No.3, 4, 5, 16' x 40'	#6-15' x 40'	#7-13' x 40'	No.9, 9, 10-16' x 40'	No.11, 12, 16' long	No.13-12'-6" long.					
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.				
COAMING. Height above top of DECK	<u>4'-0"</u>		<u>4'-0"</u>		<u>4'-0"</u>		<u>4'-0"</u>		<u>6'-0"</u>		<u>6'-0"</u>	
Thickness	Sides.....				<u>20.4# Plate</u>							
	Ends.....				<u>20.4# Plate</u>							
SHIFTING BEAMS OR WEB PLATES.	Number.....				<u>None</u>							
	Section and Scantlings.....											
	Material.....											
* FORE AND AFTERS.	Number.....				<u>None</u>							
	Section and Scantlings.....											
	Material.....											
HATCHES Thickness					<u>17.65# Plate</u>							
Remarks	<u>W.T. hinged steel hatch covers secured by dogs & wing nuts.</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: 108 feet; aft: 129 feet.
 Area of freeing ports required by regulations (Rules 30 and 100) forward: _____ sq. ft.; aft: _____ sq. ft. freeing port area required
 Particulars of freeing ports fitted on each side of vessel
 forward well { 69 ft. x 7 ins. = 77.25 sq. ft. } CONSIDER 20% area of unpierced bulwark (For Special Service) PART 4A.
 after well { 87.5 ft. x 7 ins. = 98.6 sq. ft. } NECESSARY (44.5) freeing ports amidships = 32.75 sq. ft.
TOTAL OPENINGS (FREEING PORTS) FITTED 208.6 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.
PERMANENT LADDERS FROM TRUNK TO FORECASTLE AND MIDSHIP DECKHOUSE
 In fore and aft gangways, what is the extent of the fore and aft gangway? 334 ft Are the crew berthed in the forecastle? (Rule 96) No.
 Is the gangway strong and efficiently braced fore and aft? On hatch covers State spacing of supports _____ feet. _____
 For SPECIAL SERVICE (PART 4A) are the bulwarks open for at least half the length of the exposed portion of the weather deck? (Rule 100) Openings 25% unpierced
 Are Rules Nos. 95, 97, 98 and 99 complied with as far as practicable? Yes. BULKHEAD.

If the vessel has a complete superstructure deck with a tonnage opening, is the latter fitted with efficient temporary covers? -

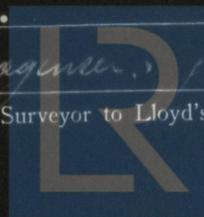


Indicate thickness and extent of any deck covering, and extent of erections, with dimensions, showing overhang (if any).
 Indicate position of scuppers from tonnage-exempted spaces above freeboard deck.

Sister vessels: "VICTORY" Type vessels built for U.S. Maritime Commission.

Fee: \$100.00 Expenses (if any) \$50.00

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