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# Lloyd's Register of Shipping

## SURVEYS FOR FREEBOARD - STEAMERS

Provisions of the U. S. A. Load Line Act of March 2, 1929)

New York Office Index No. ....  
 Port of Survey **CLEVELAND** .....  
 Date of Survey **March 12th & April 14th, 1936** .....  
 Name of Surveyor **G. Drummond** .....

PARTICULARS RELATING TO TOP GALLANT FORECASTLE WITH TOP GALLANT DECK

Book **29615** Port of Registry and Nationality **Wilmington, Del. WHITING, Ind. U.S.A.** Official Number **227895** Cross Tonnage **2935** Date of Build **1928-10** Particulars of Classification **\*100 A1 "For Service on the Great Lakes", Carrying Petroleum in Bulk.**

Owner **Lake Steamers Corp.** Builder **American Ship Building Co.** Hull No. **803**

Moulded dimensions **334 x 51 x 18.5** (85% = **15.725**)  
 Moulded displacement at a moulded draught of 85 per cent. of moulded depth **5800 @ 15'75"**  
 Coefficient of fineness for use with tables **0.776**

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth	18.5	(a) When D is greater than $\frac{L}{15}$	$\frac{L}{15} = \frac{334}{15} = 22.27$	Standard	$\frac{51 \times 12}{50} = 12.24$
Stringer plate	.04	$(D - \frac{L}{15}) \times R =$		Ship	12.00
Sheathing in wells		(b) When D is less than $\frac{L}{15}$ (if allowed)	$(22.27 - 18.54) = 3.73$	Difference	.80
$T \left( \frac{L-S}{L} \right) =$		$(\frac{L}{15} - D) \times R =$	$9.58$	Restricted to	
Depth D =	18.54	If restricted by height of superstructures	$\frac{6}{68} = .088$	Allowance = $\frac{\text{Difference}}{2} \times \left(1 - \frac{S}{L}\right) =$	$.4 \times .12 = .048$

Minimum depth =  $\frac{L}{15} = 22.27$

SUPERSTRUCTURES.

	Mean Covered Length S.	Effective Length S. (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	8 9 3 3	8 9 3 3	6-0	6/6.84	7 8 3 0
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed	5 2 25	5 2 25	7-6	-	5 2 25
" overhang					
Trunks forward	192.42				
" aft	33.61/51	1 2 6 81	6-0	6/6.84	1 1 1.23
Tonnage opening					
Total =	141.58	268.59			241.78

Length of ship (L) = 334  
 % Covered = 42.39%  
 Corresponding %, corrected for absence of forecastle if required } A = Tanker  
 Allowance = 37.60 x .6594 = 24.79

Correction for Bridge less than 2 L if required } TANKER DOES NOT APPLY = - 24.79

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	1 7 0 0	4 3 4 0	1 7 0 0	1	1 7 0 0
2	1 1 0 0	1 9 3 1	1 1 0 0	4	4 4 0 0
3	1 0 0 0	4 7 7	1 0 0 0	2	2 0 0 0
4				4	
5	9 0 0 0	9 5 4	9 0 0 0	2	1 8 0 0
6	2 8 0 0	3 8 6 2	2 8 0 0	4	1 1 2 0 0
F.P. 7	6 5 0 0	8 6 8 0	6 5 0 0	1	6 5 0 0

If excess sheer forward and deficient sheer aft:—  
 $\frac{\text{Actual sheer aft}}{\text{Standard sheer aft}} = \text{Deficient F \& A}$

Mean effective sheer ... = 18) 166.5 0  
 Standard sheer .05 L + 5 = 21.70  
 Difference (Df) = 12.45  
 Allowance =  $Df \times (.75 - \frac{S}{2L}) = 12.45 \times (.75 - .2119) = 6.69$   
 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 = 18' 6"	Displacement =	43.20
Stringer Plate = 1/8"	Tons per inch =	46.25
Freeboard 1' 7 1/2"		
Moulded draught 16' 10 3/4"		
Addition for keel below base line 1 1/4"		
Extreme draught 17' 0 1/2"		
		Summer Freeboard = 19.85

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

Tropical Fresh Water Line (above center of Disc)	Tropical Fresh Water Freeboard
Fresh Water Line	Fresh Water
Tropical Line	Tropical
Winter North Atlantic Line (below " " )	Winter
Winter North Atlantic Line " " "	Winter North Atlantic

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 RECEIVED 4 FEB 1929

Note:—The Rules referred to below are the Load Line Regulations (These should be consulted when applicable)

Is the poop or raised quarter deck connected with the bridge? **No Bridge**  
 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) **No Openings**  
 Has the bridge an efficient steel bulkhead at the fore end? **Yes**  
 Give particulars of the means of closing the openings in this bulkhead **No Openings**  
 Has the bridge an efficient steel bulkhead at the after end? **Yes**  
 Give particulars of the means of closing the openings in this bulkhead **No Openings**  
 Has the forecastle an efficient steel bulkhead at the after end? **Yes**  
 Give particulars of the means of closing the openings in this bulkhead **No Openings**  
 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? **Yes**  
 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	.44			.44
Scantlings of stiffeners	5" B A			5" B A
Spacing of stiffeners, and if bracketed	27" Bracketed			3-0 No B.
Height of sills of openings above deck	No Openings			No Openings

Particulars of weather deck hatchways.

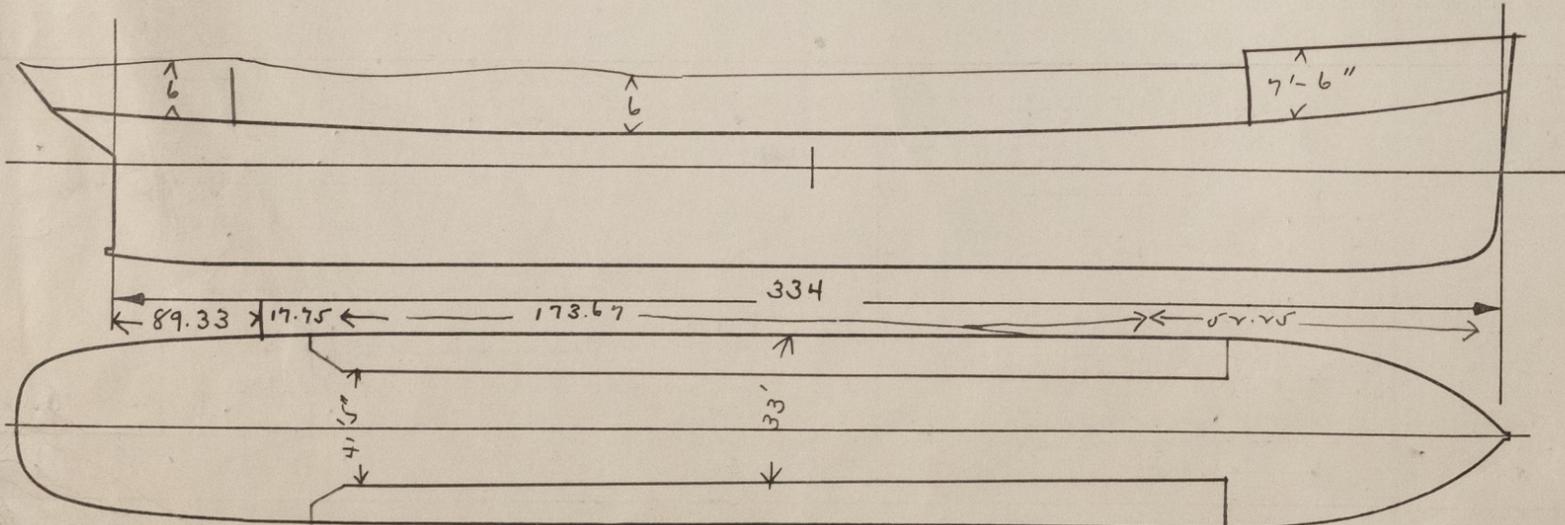
(In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

Position and Size.	No. 1 9' x 10'		15 Small O.T. 4'x6' & 4'6" x 3'							
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING: Height above top of DECK	30									
Thickness {	Sides.....	7/16			7/16					
	Ends.....	7/16			7/16					
SHIFTING BEAMS OR WEB PLATES.	Number.....									
	Section and Scantlings.....									
	Material.....									
* FORE AND AFTERS.	Number.....									
	Section and Scantlings.....									
	Material.....									
HATCHES Thickness	5/8 Steel		5/8 Steel							
Remarks	Stiffened		Stiffened							

\* 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 } \_\_\_\_\_ = \_\_\_\_\_ 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? **Trunk Runs from Fore to Poop** Are the crew berthed in the forecastle? (Rule 96) **Yes**  
 Is the gangway strong and efficiently braced fore and aft? **Yes** State spacing of supports \_\_\_\_\_ feet. **Irregular, 10' & 12'**  
 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? **Does not apply**



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.

None

Expenses (if any)