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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. 117
Port of Survey New York
Date of Survey June 6th 1931
Name of Surveyor Geo. R. Richardson

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
Libre	New York U.S.A.	221073	7057	1921-2	+100A1. Carrying petroleum in bulk
Number in Register Book 76811	Builder Union Construction Co.				Hull No. 12
Moulded dimensions 435.0' x 56.0' x 33.5' (85% = 28.47')					
Moulded displacement at a moulded draught of 85 per cent. of moulded depth 162,400 x .995 = 161,600 Tons					
Coefficient of fineness for use with tables 8.15					

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER
ed depth ...	33.50	(a) When D is greater than $\frac{L}{15}$		Standard $\frac{56 \times 12}{50} = 13.44$
er plate05	$(D - \frac{L}{15}) \times R = (33.55 - 29.00) \times 3 = 13.65$		Ship ... 14.00
ing in wells		(b) When D is less than $\frac{L}{15}$ (if allowed).		Difference56
$(\frac{L-S}{L}) =$		$(\frac{L}{15} - D) \times R =$		Restricted to ...
Depth D =	33.55	If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = \frac{.56}{4} \times .557 = .08$

SUPERSTRUCTURES.					
	Mean Covered Length S	Effective Length S _e (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	106.00	106.00	7.75	✓	106.00
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	42.14	42.14	7.75	✓	42.14
" overhang aft	38.00	38.00			38.00
" overhang forward	1.00	.50			.50
F'cle enclosed	42.00	39.43	7.75	✓	39.43
" overhang					
Trunks forward					
" aft					
Tonnage opening					
TOTAL =	197.50	192.41			192.41
Length of ship (L) =	435	435			435
% Covered ... =	45.4%	44.34%			44.34%
Corresponding %, corrected for absence of forecastle if required A =	Tanker	B = 35.34%			
Allowance ... =	42	x .3534			= -14.84

Sheer Forward

10.65	3	31.95
42.65	3	127.95
108.00	1	108.00
		267.90

Standard Sheer Forward

11.84	3	35.51
47.55	3	142.65
107.00	1	107.00
		285.16

SHEER.					
Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	68.00	53.50	53.50	1	53.50
2	30.00	23.78	23.78	4	95.12
3	7.50	5.94	5.94	2	11.88
4				4	
5	10.65	11.84	10.65	2	21.30
6	42.65	47.55	42.65	4	170.60
F.P. 7	108.00	107.00	108.00	1	108.00
Mean effective sheer ...				18	460.40
Standard sheer .05 L + 5 =					25.58
Difference (Df) ...					26.75
Allowance = Df x $(.75 - \frac{S}{2L})$ =					1.17
If limited on account of amidship superstructure ...					4.61
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 = ✓
Standard sheer aft = ✓

Actual sheer forward = 267.90
Standard sheer forward = 285.16
do not allow excess sheer aft + allow 45.88% of spec #4.

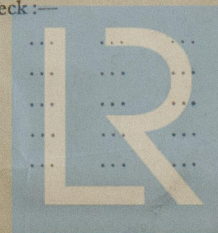
Length of enclosed superstructure L = 94.00

Forward of amidships = ✓
Aft of amidships = ✓

DRAFTS.	F.-W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required) =
Moulded Depth D = 33' 6"	Displacement = 15400	Corrected for Coefficient $\frac{.815 + .68}{1.36} = \frac{1.495}{1.36}$
Super Plate = 3 1/4"	Tons per inch = 51.5	Correction for Depth ...
board 33' 6 3/4"		" Superstructures ...
board 6' 5 1/2"		" Sheer ...
Moulded draught 27' 1 1/4"		" Camber ...
tion for keel below base line 2 1/4"	$\frac{15400}{40 \times 51.5} = 7.47$	" Thickness of deck ...
same draught 27' 3 1/2"		" Scantlings, etc. ...
		Summer Freeboard = 77.60

FREEBOARD recommended amidships from centre of Disc to top of Deck Line, W (Steel Deck):-

Tropical Fresh Water Line above centre of Disc	
Fresh Water Line	
Tropical Line	
Winter Line below	
Winter North Atlantic Line	



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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? 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) Linged steel w. J. doors
Has the bridge an efficient steel bulkhead at the fore end? Yes
Give particulars of the means of closing the openings in this bulkhead Linged steel w. J. doors
Has the bridge an efficient steel bulkhead at the after end? Yes
Give particulars of the means of closing the openings in this bulkhead Storm boards to full height of openings in
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
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	.44, coaming .48	.44 Coaming .48	3/8"	
Scantlings of stiffeners	10 x 3 1/2 x 1/2 x 50	8 x 3 1/2 x 3 1/2 x 42 L	6 x 3 1/2 x 1/2 angle	
Spacing of stiffeners, and if bracketed	36" Yes	36" Yes	36" Yes	Open
Height of sills of openings above deck	18"	18"	34"	

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. 10'0" x 10'0"		28 O.T. Hatches 6' x 4'		8 O.T. Hatches 4' x 2'		2 O.T. Hatches 4' x 2'-6"		2 O.T. Hatches 4' x 2'	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING: Height above top of DECK	24		8 x 3 1/2 x 50		8 x 3 1/2 x 50		8 x 3 1/2 x 50		8 x 3 1/2 x 50	
Thickness: Sides.....	.44		angle		angle		angle		angle	
Ends.....	.44									
SHIFTING BEAMS OR WEB PLATES: Number.....	1									
Section and Scantlings.....	10 x .30		✓		✓		✓		✓	
Material.....	Steel									
* FORE AND AFTERS: Number.....										
Section and Scantlings.....	✓		✓		✓		✓		✓	
Material.....										
HATCHES: Thickness.....	1/2" Steel		.38		.38		.38		.38	
Remarks.....	Stiffened		Steel Stiffened		Steel Stiffened		Steel Stiffened		Steel 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.

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 } Open sq. ft.
on each side of vessel { after well } ✓ 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

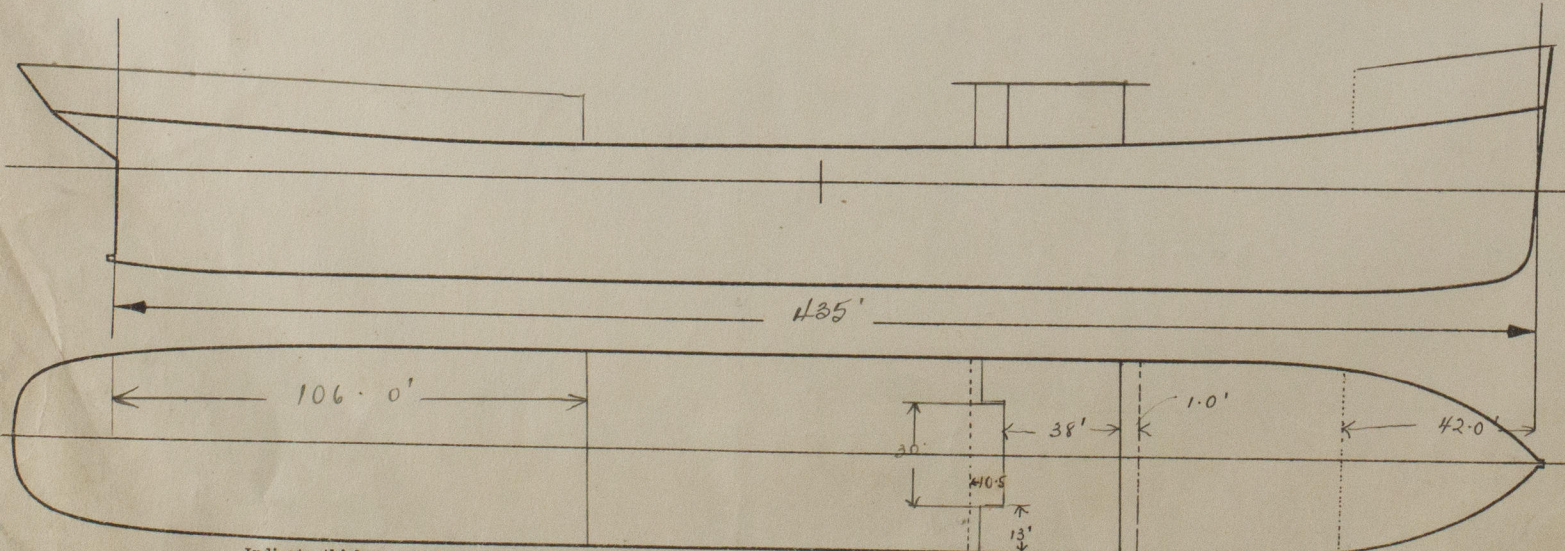
In oil tankers, what is the extent of the fore and aft gangway? all fore & aft Are the crew berthed in the forecastle? (Rule 96) No

Is the gangway strong and efficiently braced fore and aft? Yes State spacing of supports. 9 feet.

In oil tankers, are the bulwarks open for at least half the length of the exposed portion of the weather deck? (Rule 100) Open rails for 50% weather

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: ✓

Fee: \$100.00

Expenses (if any) ✓

Signed: W. C. Richardson
Surveyor to Lloyd's Register of Shipping.

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