

WRECK SECTION No 566 ²⁸⁶⁹⁷

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. 5
Port of Survey New York
Date of Survey 31/10/30
Name of Surveyor W. Bennett

Ship's Name. "Roanoke"	Port of Registry and Nationality. Wilmington Del. U.S.A.	Official Number. 219512	Gross Tonnage. 6485	Date of Build. 1920-2	Particulars of Classification. +100A1 Carrying petroleum in bulk
Number in Register Book. 82667		Builder. J. & J. S. Co.		Hull No. 21	
Moulded dimensions 415.0 x 56.0 x 32.83 (85% = 27.9)					
Moulded displacement at a moulded draught of 85 per cent. of moulded depth. 14900 x .995 = 14830					
Coefficient of fineness for use with tables. 8.00					

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth	32.83	(a) When D is greater than $\frac{L}{15}$		Standard	$\frac{56 \times 12}{50} = 13.45$
Stringer plate	.05	$(D - \frac{L}{15}) \times R = (32.83 - 27.67) \times .3 = 15.63$	+ 15.63	Ship	14.00
Sheathing in wells		(b) When D is less than $\frac{L}{15}$ (if allowed).		Difference	.55
$T(\frac{L-S}{L}) =$		$(\frac{L}{15} - D) \times R =$		Restricted to	.55
Depth D =	32.88	If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = \frac{.55}{4} \times \frac{58.4}{41.5} = .08$	

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S _e (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	107.00	107.00	8.0	✓	107.00
" overhang					
R.Q.D. enclosed					
" overhang	32.20	32.20			32.20
Bridge enclosed	31.50	31.50	8.0	✓	31.50
" overhang aft + house	3.50	3.50			3.50
" overhang forward					
F'cle enclosed	33.00	31.00	8.0	✓	31.00
" overhang					
Trunks forward					
" aft					
Tonnage opening	174.50	172.00			172.00

Sheer forward

10.65	3	31.95
42.65	3	127.95
98.0	1	98.00
		257.90

Standard Sheer forward

11.34	3	34.0
45.84	3	137.5
103.00	1	103.0
		274.5

TOTAL = 175.00 172.64 172.64
Length of ship (L) = 415 415 415
% Covered... = 42.17% 41.6% 41.6%
Corresponding % covered, corrected for absence of forecastle if required } A = Tanker B = 32.60% 32.45%
Allowance ... = 42.0 x 326 = 325 = -13.69 -13.65
Correction for Bridge less than 2 L if required

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	50.0	51.5	50.0	1	50.0
2	18.15	22.92	18.15	4	72.6
3	4.55	5.67	4.55	2	9.1
4				4	
5	10.65	11.34	10.65	2	21.3
6	42.65	45.84	42.65	4	170.6
F.P. 7	98.0	103.0	98.00	1	98.0

If excess sheer forward and deficient sheer aft:-

Actual sheer aft =
Standard sheer aft =
Actual sheer forward = 257.9 = 93.94%
Standard sheer forward = 274.5

allow 93.94% over forecastle

Length of enclosed superstructure L

Forward of amidships =
Aft of amidships =

Mean effective sheer ... = 18) 421.60
Standard sheer .05 L + 5 = 23.42
Difference (Df) ... = 25.75
Allowance = Df x (.75 - $\frac{S}{2L}$) = 2.33 (.75 - $\frac{21}{41.5}$) = 1.26
If limited on account of amidship superstructure ... =
If limited on account of excess sheer (1 1/2 in. per 100 ft.) ... =

DRAFTS.		F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required)
Moulded Depth D =	32' 10"	Displacement = 14260	Corrected for Coefficient $\frac{800 + 68}{136} =$
Stringer Plate = (Wood Deck)	3/4"	Tons per inch = 48.5	Correction for Depth ...
Freeboard	32' 10 3/4"		" Superstructures ...
Moulded draught	26' 7 3/4"		" Sheer ...
Allowance for keel below base line	2 1/4"	$\frac{14200}{40 \times 48.5} = 7.35$	" Camber ...
Extreme draught	26' 10"		" Thickness of deck ...
	26' 9 3/4"		" Scantlings, etc. ...
			Summer Freeboard = 75.09

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

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

Tanker freeboard

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) 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 Steel hinged w. T floor P & S
Has the bridge an efficient steel bulkhead at the after end? yes
Give particulars of the means of closing the openings in this bulkhead Steel bolted plate Hook bolts not this Bld
Has the forecastle an efficient steel bulkhead at the after end? no
Give particulars of the means of closing the openings in this bulkhead open
Are the engine and boiler openings covered by a bridge, poop, raised quarter-deck, or enclosed by a strong steel deckhouse? covered by poop
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:

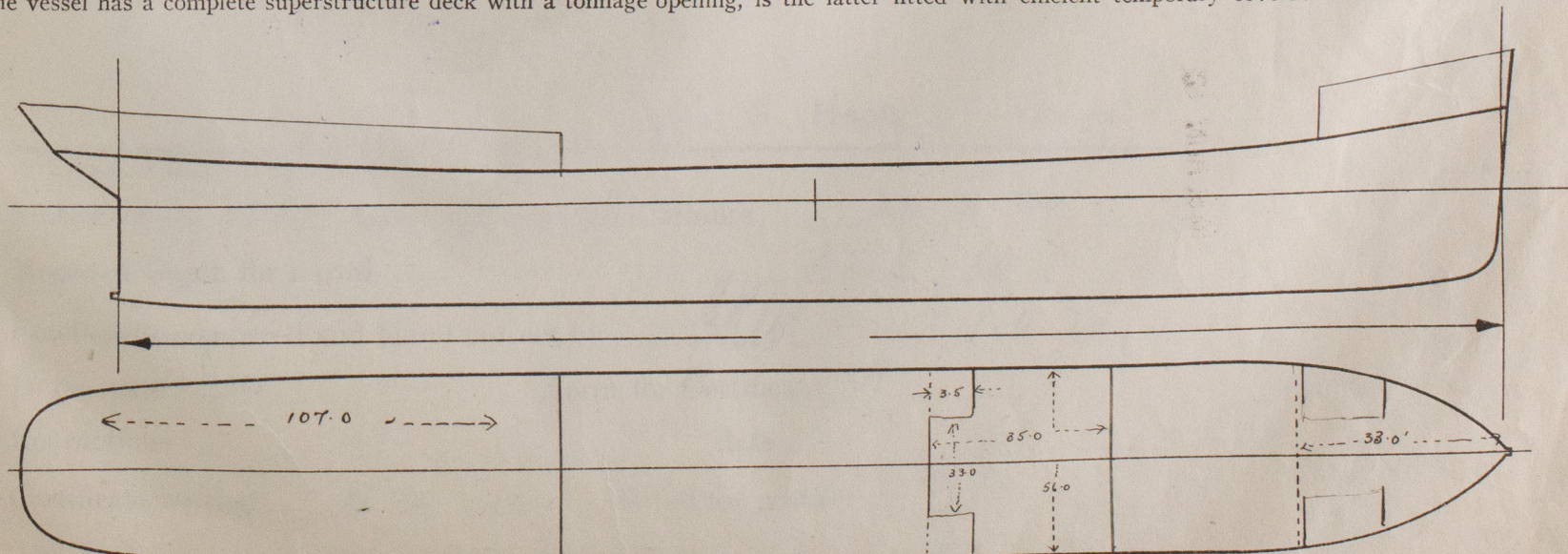
	Poop or Raised Quarter-Deck bulkhead	Bridge front bulkhead	Bridge after bulkhead	Forecastle bulkhead
Thickness of bulkhead plating				
Scantlings of stiffeners	<u>As per Rules</u>	<u>As per Rules</u>	<u>As per Rules</u>	<u>open</u>
Spacing of stiffeners, and if bracketed				
Height of sills of openings 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.	Ship.		Rule.		Ship.		Rule.		Ship.		Rule.		Ship.		Rule.	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Height above top of DECK																
Thickness	Sides.....															
	Ends.....															
LIFTING 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? Not applicable
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. × 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? all F & A 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 ✓ 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.

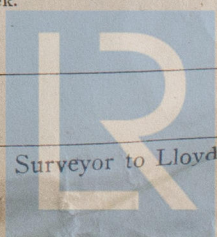
Sister vessels:

"Occidental"

Fee: # 90

Expenses (if any)

Surveyor to Lloyd's Register of Shipping.



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