

In letter from owners dated April 2-1931

Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD - STEAMERS

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

25109.

New York Office Index No. 89
Port of Survey New York
Date of Survey March 31st 1931
Name of Surveyor Geo. R. Richardson

Ship's Name. <u>R. H. Stewart</u>	Port of Registry and Nationality. <u>Los Angeles</u> <u>U.S.A.</u>	Official Number. <u>214 951</u>	Gross Tonnage. <u>7530</u>	Date of Build. <u>1917-6</u>	Particulars of Classification. <u>+100 A1. Shelter deck with freeboard</u> <u>carrying Petrol bulk</u>
Number in Register Book... <u>82132</u>		Builder... <u>New York S. B. Corp.</u>		Hull No. <u>170</u>	
Moulded dimensions <u>468.0</u> × <u>62.5</u> × <u>32.0</u> (85% = <u>27.20</u>)					
Moulded displacement at a moulded draught of 85 per cent. of moulded depth... <u>18380</u>					
Coefficient of fineness for use with tables... <u>80.9</u>					

DEPTH FOR FREEBOARD.	CORRECTION FOR DEPTH.	CAMBER
Depth <u>32.00</u>	(a) When D is greater than $\frac{L}{15}$ $(D - \frac{L}{15}) \times R = (32.04 - 31.2) \times 3.7 = +2.52$	Standard $\frac{62.5 \times 12}{50} = \dots$ <u>15.00</u>
Plate <u>18.8#</u>	(b) When D is less than $\frac{L}{15}$ (if allowed). $(\frac{L}{15} - D) \times R = \dots$	Ship <u>14.91</u>
ing in wells) $(\frac{L-S}{L}) = \dots$		Difference <u>0.09</u>
Depth D = <u>32.04</u>	If restricted by height of superstructures	Restricted to <u>✓</u>
		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = \frac{0.09 \times 0.02}{4} = \dots$ <u>✓</u>

SUPERSTRUCTURES.					
	Mean Covered Length S	Effective Length S _e (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	74.00	74.00	7.5	✓	74.00
" overhang	33.67	16.83			16.83
Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
cle <u>enclosed</u>	348.33	348.33	7.5	✓	348.33
" overhang	4.00	3.00			3.00
Trunks forward					
" aft					
Tonnage opening	8.00	12.92 = 1/2 diff			12.92
TOTAL =	468.00	455.08			455.08
Length of ship (L) =	468	468			468
% Covered... =	100%	97.24%			97.64%
Corresponding %, corrected for presence of forecastle if required A = Tanker		B = 96.60%			
Allowance ... =	42.0	× .9660			= - 40.57
Correction for Bridge less than 2 L if required } Tanker does not apply.					

Actual height of Superstructure = 7'-6" -
Standard = 7'-6" -
Difference = Nil

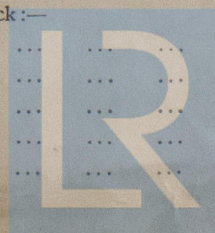
SHEER.					
Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	48.0	56.8	48.0	1	48.00
2	20.83	25.25	20.83	4	83.32
3	5.21	6.31	5.21	2	10.42
4	-	-	-	4	-
5	11.75	12.62	11.75	2	23.50
6	47.0	50.48	47.0	4	188.00
F.P. 7	108.0	113.6	108.0	1	108.00
Mean effective sheer ...				18)	461.24
Standard sheer .05 L + 5 =					35.62
Difference (Df) ...					28.40
Allowance = Df × $(.75 - \frac{S}{2L}) = 2.78 (.75 - .50)$					2.78
Limited on account of amidship superstructure					+ .70
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 =
Standard sheer forward =
Length of enclosed superstructure L =
Forward of amidships =
Aft of amidships =

DRAFTS.	F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required)
Depth D = <u>32' 0"</u>	Displacement = <u>19000</u>	Corrected for Coefficient $\frac{1809 + .68}{1.36} = \dots$ <u>79.70</u>
Plate = <u>1/2"</u>	Tons per inch = <u>61</u>	
d <u>32' 0 1/2"</u>		
d <u>4' 2"</u>		
draught <u>27' 10 1/2"</u>		
for keel below base line <u>2 1/2"</u>	$\frac{19000}{40 \times 61} = 7.79$	
draught <u>28' 1"</u>		
		Correction for Depth ... <u>2.52</u>
		" Superstructures ... <u>40.57</u>
		" Sheer ... <u>.70</u>
		" Camber ...
		" Thickness of deck
		" Scantlings, etc.
		3.22 40.57 - 37.35
		Summer Freeboard = <u>49.91</u>

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 " " "



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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? by shelter deck
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? connected with fore
Give particulars of the means of closing the openings in this bulkhead
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 are secured chains
Has the fore-castle an efficient steel bulkhead at the after end? connected with bridge
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? connected with bridge
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	Fore-castle bulkhead
Thickness of bulkhead plating	31 Coaming, 37 ply		31 Coaming, 37 ply	
Scantlings of stiffeners	4x3x38 angles		5x3x38 angles	
Spacing of stiffeners, and if bracketed	24" yes		36 bracket top	
Height of sills of openings above deck	no openings		18"	

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.		10 O.F. Hatches		Tonnage Opening		220 F. Hatches		10 O.F. Hatches		3 O.F. Hatches	
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	24		11x3 1/2 x 1/2 BA		24		Trunked		30	
	Thickness	18 lbs		18 lbs		18 lbs		18 lbs		18 lbs	
	Ends	18 lbs		18 lbs		18 lbs		18 lbs		18 lbs	
SHIFTING BEAMS OR WEB PLATES.	Number	None		1		None		None		None	
	Section and Scantlings			Same as							
	Material			No 2 & 6							
* FORE AND AFTERS.	Number	None		None		None		None		None	
	Section and Scantlings										
	Material										
HATCHES Thickness		3/8 Steel		3" Wood		7/16		None		7/16 Steel	
Remarks		Stiffened		Covered		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 Tonnage forward: 45.67 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 = sq. ft.

on each side of vessel { Tonnage after well = 1x3.5x1.8 = 6.3 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

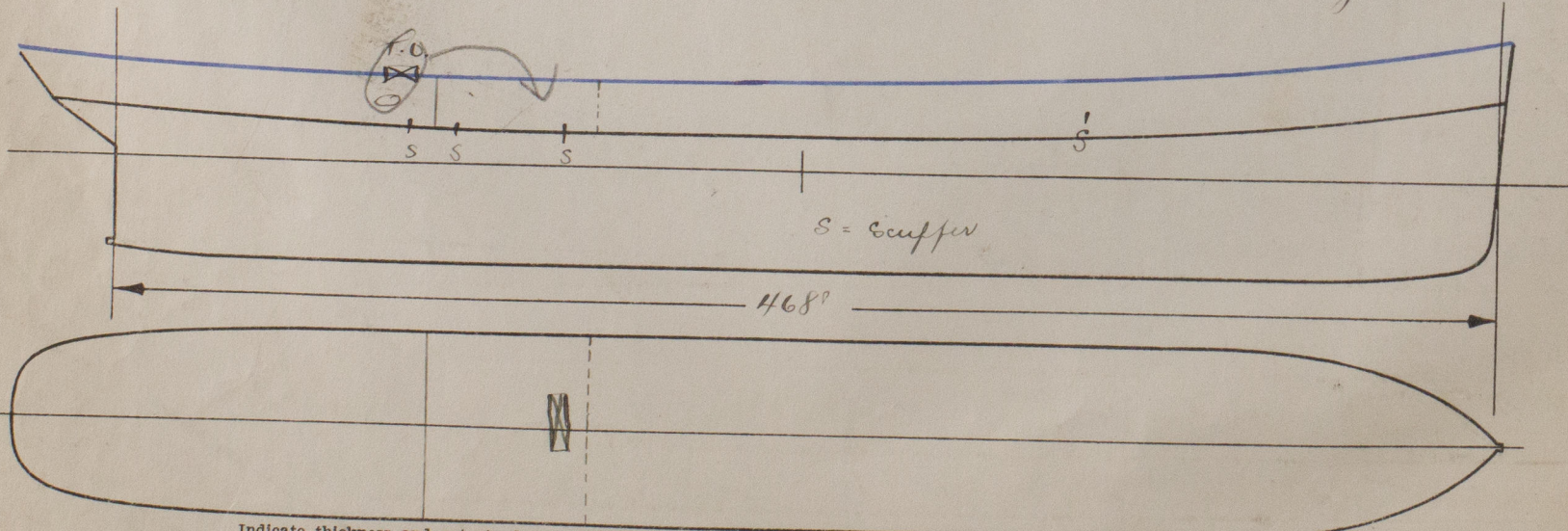
In oil tankers, what is the extent of the fore and aft gangway? Shelter deck

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) Open rails throughout

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? yes



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: "F. H. Mickett"

Fee: \$100.00

Expenses (if any)

Surveyor to Lloyd's Register of Shipping.

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