

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 *San Francisco* ..
 Date of Survey *Feb 24 1929* ..
 Name of Surveyor *W. H. ...* ..

S.S. M.S.	Ship's Name <i>James McFee</i>	Port of Registry and Nationality <i>Panama P.R.</i>	Official Number <i>218816</i>	Gross Tonnage <i>9859</i>	Date of Build <i>1917-3</i>	Particulars of Classification <i>#100A1 Steel deck with bulwarks, copper plating in bulk, longitudinal framing</i>	
Number in Register Book <i>21873</i>		Owner <i>Panama Steamship Co.</i>		Builder <i>Chillicothe Ship Co. Panama P.R.</i>		Hull No.	
Moulded dimensions <i>500</i> × <i>68.8</i> × <i>38.25</i> (85% =)		Moulded displacement at a moulded draught of 85 per cent. of moulded depth				Coefficient of fineness for use with tables <i>.514</i>	

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth	<i>38.25</i>	(a) When D is greater than $\frac{L}{15}$		Standard	$\frac{68 \times 12}{50} = 16.32$
Stringer plate	<i>.78</i>	$(D - \frac{L}{15}) \times R = (38.25 - 25.5) \times 3 = 37.5 - 25.5 = 12$	<i>+ 14.94</i>	Ship	<i>14.94</i>
Sheathing in wells	✓	(b) When D is less than $\frac{L}{15}$ (if allowed)	✓	Difference	<i>2.32</i>
$T \left(\frac{L-S}{L} \right) =$	✓	$(\frac{L}{15} - D) \times R =$	✓	Restricted to	...
Depth $D =$	<i>38.31</i>	If restricted by height of superstructures	✓	Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = \frac{2.32}{4} \times (1 - \frac{50}{38.31}) = .58$	<i>+ .58</i>

SUPERSTRUCTURES.

	Mean Covered Length S.	Effective Length S _e (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
Fore enclosed					
" overhang					
Trunks forward					
" aft					
Tonnage opening					
Total					

Hand added

4 in 7 ft forecastle was fitted. Allowance would be 42 x .099 = 2.06. Penalty for no forecastle = 2.06.

Length of ship (L) =
 % Covered =
 Corresponding %, corrected for absence of forecastle if required (A) =
 Allowance = × =

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	<i>33</i>	<i>60.00</i>	<i>33.00</i>	<i>1</i>	<i>33.00</i>
2	<i>18.4</i>		<i>10.50</i>	<i>4</i>	<i>42.00</i>
3	<i>2</i>		<i>2.00</i>	<i>2</i>	<i>4.00</i>
4				<i>4</i>	
5	<i>11.5</i>		<i>11.75</i>	<i>2</i>	<i>23.50</i>
6	<i>47</i>		<i>47.00</i>	<i>4</i>	<i>188.00</i>
F.P. 7	<i>44</i>	<i>120.00</i>	<i>114.00</i>	<i>1</i>	<i>114.00</i>

If excess sheer forward and deficient sheer aft:-
 Actual sheer aft = *Def.*
 Standard sheer aft =
 Actual sheer forward = *Def.*
 Standard sheer forward =

Mean effective sheer ... = *18) 404.50*
 Standard sheer .05 L + 5 = *22.47*
 Difference (Df) = *30.00*
 Allowance = $Df \times (75 - \frac{S}{2L}) = 7.53 \times .75 = 5.65$
 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 = } *Tankers.*

DRAFTS.	F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required)
Moulded Depth $D =$ <i>38'-3"</i>	Displacement =	<i>87.50</i>
Stringer Plate = (or Wood Deck) <i>3/4"</i>	Tons per inch =	<i>96.14</i>
Freeboard <i>38'-3 3/4"</i>		
Moulded draught <i>28'-3 3/4"</i>		
Addition for keel below base line <i>2 1/4"</i>		
Extreme draught <i>28'-6"</i>		
		Corrected for Coefficient $\frac{814 + .68}{1.36} = 1.494$
		Correction for Depth
		Superstructures <i>14.94</i>
		Sheer <i>2.06</i>
		Camber <i>5.65</i>
		Thickness of deck <i>.58</i>
		Scantlings, etc. <i>1.13</i>
		Total <i>24.36</i>
		Summer Freeboard = <i>120.50</i>

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, *Wood*, Steel. Deck:— *10'-0 1/2" = 3061 1/4*

Tropical Fresh Water Line (above center of Disc) <i>14 3/4" = 375</i>	Tropical Fresh Water Freeboard	<i>8' 9 3/4" = 2686</i>
Fresh Water Line " " <i>1 3/4" = 197</i>	Fresh Water	<i>7' 4 1/4" = 2764</i>
Tropical Line " " <i>1" = 178</i>	Tropical	<i>9' 5 1/2" = 2813</i>
Winter Line (below) " " <i>1" = 178</i>	Winter	<i>10' 7 1/2" = 3239</i>
Winter North Atlantic Line " " <i>12" = 305</i>	Winter North Atlantic	<i>11' 0 1/2" = 3266</i>

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? *Yes*
 Has the poop or raised quarter deck an efficient steel bulkhead at the fore end? *✓*
 Give particulars of the means of closing the openings in this bulkhead (Rules 43 and 44) *✓*
 Has the bridge an efficient steel bulkhead at the fore end? *✓*
 Give particulars of the means of closing the openings in this bulkhead *✓*
 Has the bridge an efficient steel bulkhead at the after end? *✓*
 Give particulars of the means of closing the openings in this bulkhead *✓*
 Has the forecastle an efficient steel bulkhead at the after end? *✓*
 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? *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 *Coaming 5" plating 3/8" stiffeners 4" x 3" at 7 1/2' 3/8" x 5" around of head opening 2" at 30"*
 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		<i>3/8" x 3"</i>		
Spacing of stiffeners, and if bracketed				
Height of sills of openings above deck				

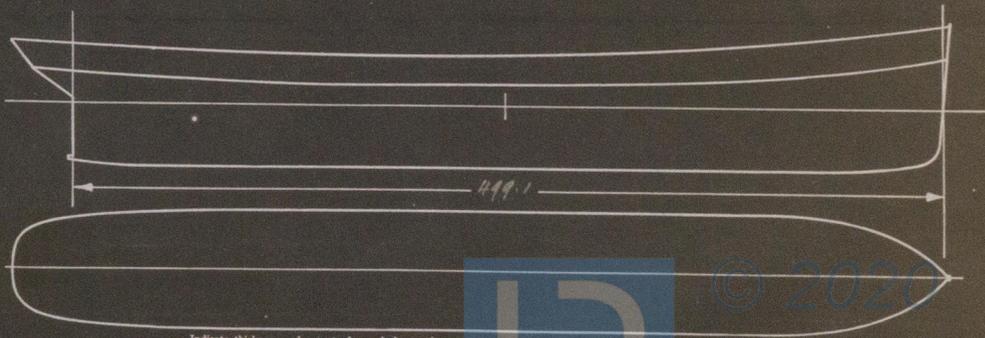
Particulars of weather deck hatchways. (In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

Position and Size.	No. 1. 16' 0"		Coaming 6' 4"		Bridge 10' 0"		Forecastle 34' 0"		No. 2. 4' 10" x 2' 0"	
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING										
Height above top of DECK	<i>30</i>	<i>100</i>	<i>30</i>	<i>100</i>	<i>30</i>		<i>30</i>		<i>10</i>	
Thickness	Sides	<i>.44</i>	<i>.44</i>		<i>.44</i>		<i>.44</i>		<i>.375</i>	
	Ends	<i>.44</i>	<i>.44</i>		<i>.44</i>		<i>.44</i>		<i>.375</i>	
SHIFTING BEAMS OR WEBS PLATES	Number	<i>3</i>	<i>100</i>							
	Section and Scantlings	<i>10 x 6 x .44</i>	<i>100</i>							
FORE AND AFTERS	Number	<i>✓</i>								
	Section and Scantlings	<i>✓</i>								
HATCHES	Thickness	<i>5" steel plate</i>	<i>100</i>	<i>.44" steel plate</i>	<i>100</i>	<i>.44" steel plate</i>	<i>100</i>	<i>3/8" steel plate</i>	<i>100</i>	<i>3/8" steel plate</i>
	Remarks	<i>Good</i>		<i>Good</i>		<i>Good</i>		<i>Good</i>		<i>Good</i>

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. *Flush decked*
 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. *for ribs and strakes*
 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 *7' 1/2" x 10' 0"* 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? *✓*

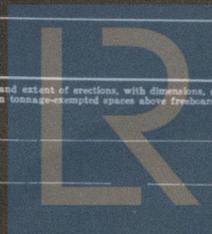


Indicate thickness and extent of any deck covering, and extent of erections, with dimensions, showing overhang (if any).
 Indicate position of scuppers from tonnage-exempted spaces above foreward deck.

Sister vessels:

Fee: *\$10.00*

Expenses (if any) *\$12.00*



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