

Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD - STEAMERS

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

17 FEB
Phila. Office No 6716
New York Office Index No. 169
Port of Survey Philadelphia
Date of Survey Jan 8th 1934
Name of Survey W. Bennett

S.S. "Cuyamapa"	Port of Registry and Nationality Puerto Cortez Honduras	Official Number ✓	Gross Tonnage 3298	Date of Build 1914-7	Particulars of Classification +100 A1. "Awning deck with freeboard"
M.S. Number in Register Book 24297	Owner Mayan S. S. Corp.	Builder Duran, Hunter & Co. Phila. Pa.	Hull No. 961		
Moulded dimensions 331'-1" x 44'-10" x 28'-0" (85% = 23.8)					
Moulded displacement at a moulded draught of 85 per cent. of moulded depth (No. A3 available No plane on Ship)					
Coefficient of fineness for use with tables 42. tonnage coeff. corrected for C.D.B. 7.35					

DEPTH FOR FREEBOARD.	CORRECTION FOR DEPTH.	CAMBER
Moulded depth ... 28.00'	(a) When D is greater than $\frac{L}{15}$ $(D - \frac{L}{15}) \times R = (28.29 - 22.07) \times \frac{331}{2545} = +15.84'$	Standard $\frac{44.83 \times 12}{50} = 10.76'$
Stringer plate $(\frac{1}{2}''$) ... 0.4'	(b) When D is less than $\frac{L}{15}$ (if allowed). $(\frac{L}{15} - D) \times R = ...$	Ship ... 11.25'
Sheathing in wells $(\frac{3}{8}''$) ... 2.5'		Difference ... 4.9'
$T(\frac{L-S}{L}) =$...		Restricted to ...
Depth D = 28.29'	If restricted by height of superstructures ...	Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = 1.12 \times .89 = .89'$

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 ...					
F'cle enclosed ...	142.60	36.53	7.5	✓	36.53
" overhang ...					
Trunks forward ...					
" aft ...					
Tonnage opening ...					

Take Forecastle as Open.

$$\begin{aligned} 42.60 \\ 33.11 \times 96\% &= 31.785 \\ 9.49 \times 50\% &= 4.745 \\ \text{Effective Length} &= 36.53 \end{aligned}$$

TOTAL = 42.60 36.53 36.74

Length of ship (L) = 331.1 331.1 11.03%

% Covered... = 12.86%

Corresponding %, corrected for absence of forecastle if required } A = 5.55% B = 5.515%

Allowance ... = 37.41 x 0.5515 = -2.06"

Correction for Bridge less than 2 L if required = -2.06"

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	47.00	143.10	43.10	1	43.10
19.75 2	20.00	119.18	19.18	4	76.72
3	5.00	47.44	47.44	2	9.48
4				4	
5	9.00	9.48	9.00	2	18.00
36.34 6	36.50	38.36	36.50	4	146.00
F.P. 7	85.50	86.20	85.50	1	85.50

If excess sheer forward and deficient sheer aft: Deficient Forward

Actual sheer aft = Actual 85.50' Standard 86.20'

Standard sheer aft = 109.50' 115.28'

Actual sheer forward = 27.00'

Standard sheer forward = 22.00'

Length of enclosed superstructure L

Forward of amidships =

Aft of amidships =

Mean effective sheer ... = 21.04'

Standard sheer .05 L + 5 = 21.55'

Difference (Df) ... = .51'

Allowance = $Df \times (\frac{S}{L} - .75) = .51 \times (\frac{75}{331} - .75) = .51 \times (.226 - .75) = .51 \times (-.524) = -.267'$

If limited on account of amidship superstructure ... ✓

If limited on account of excess sheer (1 1/2 in. per 100 ft.) ... ✓

DRAFTS.

Moulded Depth, D = 28'-0"

Stringer Plate A_{ND} (3 1/2") 3 1/2"

Freeboard 28'-3 1/2"

Moulded draught 20'-11 1/4"

Addition for keel below base line 1 1/4"

Extreme draught 21'-1"

20.92 - 5.23" say 5 1/4"

F. W. ALLOWANCE

Displacement = Not available

Tons per inch = Not available

40 x 20.92 = 523"

TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient $\frac{735 + .68}{1.36} = \frac{1.415}{1.36} = 1.04$

Correction for Depth ... 15.84'

" Superstructures ... 2.06'

" Sheer05'

" Camber11'

" Thickness of deck8'

" Scantlings, etc. ... 21.16'

37.05 2.17 + 34.88'

Summer Freeboard = 88.25'

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

Tropical Fresh Water Line (above center of Disc) 10 1/2" 267 m/m Tropical Fresh Water Freeboard 19.75'

Fresh Water Line " " " 5 1/4" 133 " Fresh Water " 21.09'

Tropical Line " " " 5 1/4" 133 " Tropical " 21.09'

Winter Line (below " " " 5 1/4" 133 " Winter " 23.25'

Winter North Atlantic Line " " " " " Winter North Atlantic " 23.25'

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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 poop
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? No bridge
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? Check with two open passageways
Give particulars of the means of closing the openings in this bulkhead 2" strong wood doors, removable from both sides
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? ✓
Give thickness of plating, scantlings and spacing of stiffeners .25 1 1/2 x 3 x .25 spaced 36"
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				.31
Scantlings of stiffeners				3 1/2 x 3 x .31
Spacing of stiffeners, and if bracketed				30" 20
Height of sills of openings above deck				16"

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).

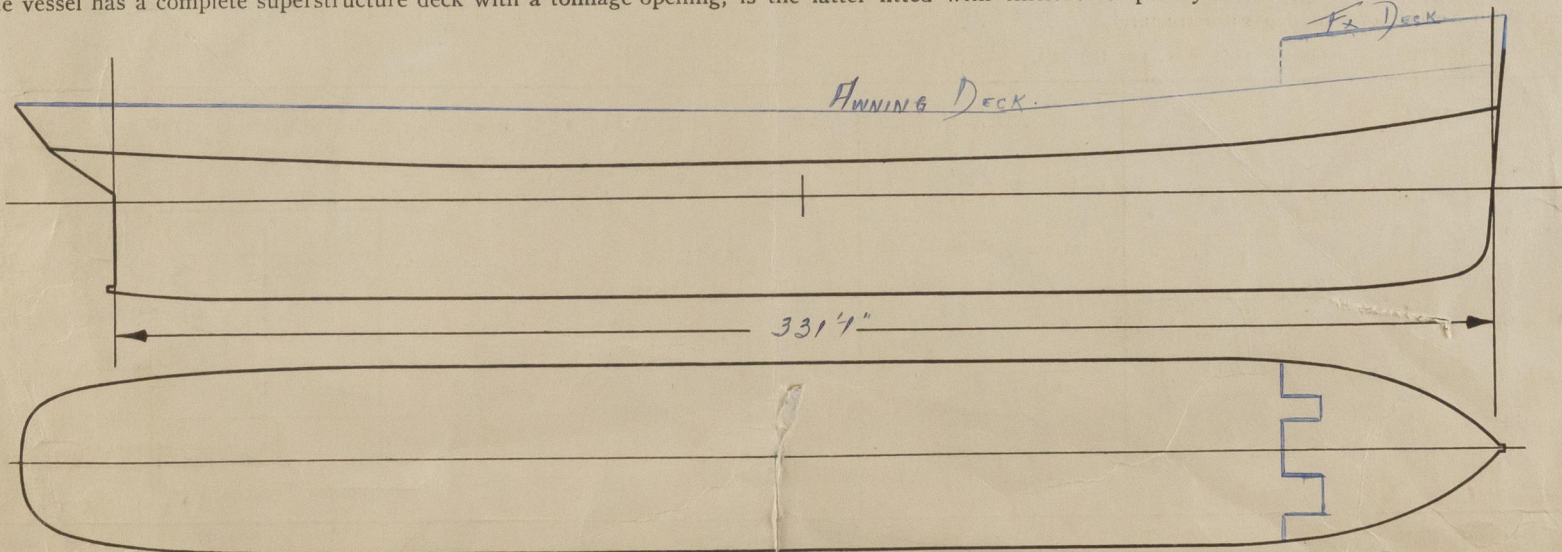
Position and Size.	No. 1		No. 2		No. 3		No. 4		Ship.	Rule
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.		
COAMING										
Height above top of DECK	30"		30"		30"		30"			
Thickness										
Sides.....	.40		.44		.44		.40			
Ends.....	.36		.40		.40		.40			
SHIFTING BEAMS OR WEB PLATES.										
Number.....	1		3		2		1			
Section and Scantlings.....	12x6x71x40		12x6x71x40		12x6x71x40		12x6x71x40			
Material.....	Steel		1 channel 12x3 1/2x3 1/2x40							
* FORE AND AFTERS.										
Number.....	✓		✓		✓		✓			
Section and Scantlings.....										
Material.....										
HATCHES Thickness.....	3"		3"		3"		3"			
Remarks.....	F. H.		F. H.		F. H.		F. H.			

* 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? No
Length of bulwarks in wells—forward: _____ feet; aft: _____ feet. No "wells" open bulwarks forward & aft of deckhouse
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? _____ Are the crew berthed in the forecastle? (Rule 96). _____
Is the gangway strong and efficiently braced fore and aft? _____ 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). _____
Are Rules Nos. 95, 97, 98 and 99 complied with as far as practicable? _____

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: SS "Lempire"

Expenses (if any) 2.00 Philadelphia

Signed W. B. DeLoach

Surveyor to Lloyd's Register of Shipping.

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