

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

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Port of Survey Philadelphia

Date of Survey Jan 8th 1934

Name of Surveyor W. Bennett

| | | | | | |
|-------------------------------|---------------------------------------------------------|---------------------------------------|--------------------|----------------------|--------------------------------------------------------------------------------------|
| S.S. M.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" 53 P.L. No 2-31. |
| Number in Register Book 24297 | | Builder Duran, Hunter + W. Rich, Ltd. | | | Hull No. 961 |

Owner Mayan S.S. Corp.
 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. As available to plane on Ship)
 Coefficient of fineness for use with tables 42. tonnage coeff. corrected for C.D.B. 735

| DEPTH FOR FREEBOARD. | | CORRECTION FOR DEPTH. | | CAMBER | |
|------------------------------------|--------|------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------|
| Moulded depth | 28.00' | (a) When D is greater than $\frac{L}{15}$ | $(D - \frac{L}{15}) \times R = (28.29 - 22.07) \times \frac{331}{2.545} = +15.84$ | Standard | $\frac{44.83 \times 12}{50} = 10.76'$ |
| Stringer plate $(\frac{1}{2}''$) | .04' | (b) When D is less than $\frac{L}{15}$ (if allowed). | | Ship | 11.25' |
| Sheathing in wells $(3''$) | .25' | | | Difference | .49' |
| $T \left(\frac{L-S}{L} \right) =$ | | | | Restricted to | |
| Depth D = | 28.29 | If restricted by height of superstructures | | Allowance = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S}{L}\right) = 1.12 \times .89 = .99$ | |

| 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 | 42.60 | 36.53 | 7.5 | ✓ | 36.53 |
| " overhang | | | | | |
| Trunks forward | | | | | |
| " aft | | | | | |
| Tonnage opening | | | | | |
| TOTAL = | 42.60 | 36.53 | | | 36.74 |
| Length of ship (L) = | 331.1 | 331.1 | | | 11.03% |
| % Covered... = | 12.86% | | | | 11.0 |
| Corresponding %, corrected for absence of forecastle if required } A = 5.55% | | | | | |
| Allowance ... = | 37.41 | x .05515 | | | - 2.06" |

Take Forecastle as Open.
 $42.60 \times 96\% = 40.85$
 $9.49 \times 50\% = 4.745$
 Effective Length 36.53

| SHEER. | | | | | |
|-------------------------------------------------------------------|---------------|-----------------|----------------|-------|-----------|
| Station. | Actual Sheer. | Standard Sheer. | Allowed Sheer. | S. M. | Products. |
| A.P. 1 | 47.00 | 43.10 | 43.10 | 1 | 43.10 |
| 2 | 20.00 | 19.18 | 19.18 | 4 | 76.72 |
| 3 | 5.00 | 4.74 | 4.74 | 2 | 9.48 |
| 4 | | | | 4 | |
| 5 | 9.00 | 9.48 | 9.00 | 2 | 18.00 |
| 6 | 36.50 | 38.36 | 36.50 | 4 | 146.00 |
| F.P. 7 | 85.50 | 86.20 | 85.50 | 1 | 85.50 |
| Mean effective sheer ... | | | | 18) | 378.80 |
| Standard sheer .05 L + 5 = | | | | | 21.04 |
| Difference (Df) ... | | | | | 21.55 |
| Allowance = $Df \times \left(.75 - \frac{S}{2L} \right) = .51$ | | | | | .51 |
| If limited on account of amidship superstructure ... | | | | | + .05 |
| If limited on account of excess sheer (1 1/2 in. per 100 ft.) ... | | | | | ✓ |

If excess sheer forward and deficient sheer aft: Deficient Forward

| | | | |
|-------------------------------------|---------|----------|---------|
| Actual sheer aft | 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 | 222 | | |
| Forward of amidships = | 2297 | | |
| Aft of amidships = | | | |

| DRAFTS. | F. W. ALLOWANCE | TABULAR FREEBOARD (corrected for flush deck if required) = |
|----------------------------------------------------|-------------------------------|------------------------------------------------------------|
| Moulded Depth D = 28'-0" | Displacement = Not available | Corrected for Coefficient $\frac{735 + .68}{1.36} = 539.1$ |
| Stringer Plate A _{ND} (3 1/2") 28'-3 1/2" | Tons per inch = Not available | Correction for Depth ... 15.84 |
| Freeboard 7'-4 1/2" | | " Superstructures ... 2.06 |
| Moulded draught 20'-11 1/4" | | " Sheer05 |
| Addition for keel below base line 1 1/4" | | " Camber11 |
| Extreme draught 21'-7" | 40 x 20.92 = 523" | " Thickness of deck8 |
| | | Scantlings, etc. ... 21.16 |
| | | Summer Freeboard = 37.05 |
| | | |
| | | 51.30 |
| | | 53.37 |
| | | 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 |

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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 3" strong wood doors (openable 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" |

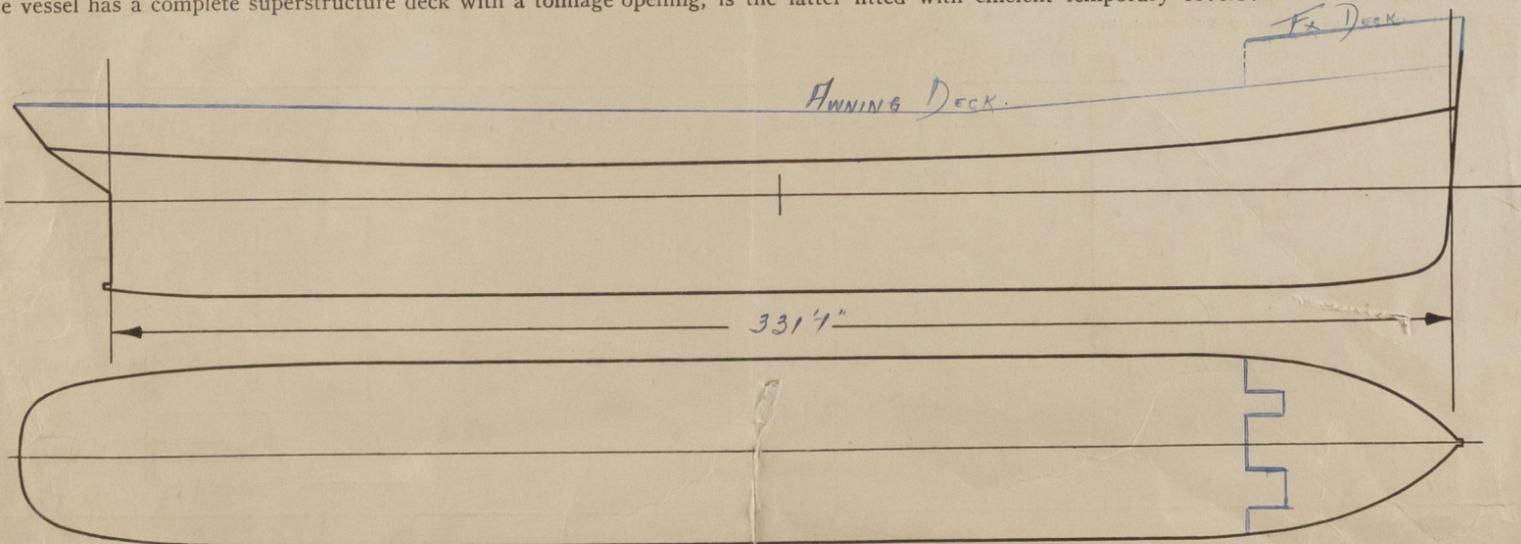
Particulars of weather deck hatchways. (In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

| Position and Size. | No. 1 | | No. 2 | | No. 3 | | No. 4 | | Ship. | Rule |
|-------------------------------|-----------------------------|------------|--------------------------------|-------|------------|-------|------------|-------|-------|------|
| | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. | | |
| Height above top of DECK | 30" | | 30" | | 30" | | 30" | | | |
| COAMING Thickness | Sides..... | .40 | .44 | | .44 | | .40 | | | |
| | Ends..... | .36 | .40 | | .40 | | .40 | | | |
| SHIFTING BEAMS OR WEB PLATES. | Number..... | 1 | 3 | | 2 | | 1 | | | |
| | Section and Scantlings. I. | 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 well } _____ 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? _____ 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.

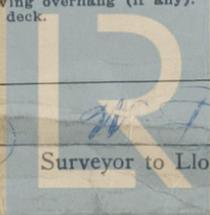
Sister vessels: SS "Empire"

Expenses (if any) 2.00 Philadelphia

Signed W. D. [Signature]

Surveyor to Lloyd's Register of Shipping.

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