

20 OCT 1934

New York Office Index No. 18

Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD - STEAMERS

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

Port of Survey... *New Orleans*
Date of Survey... *21st 22nd Aug 1934*
Name of Surveyor... *J. W. Murray*

Ship's Name. <i>Defalu</i>	Port of Registry and Nationality. <i>Cuba</i>	Official Number. <i>✓</i>	Gross Tonnage. <i>5221</i>	Date of Build. <i>1930</i>	Particulars of Classification. <i>+10001 with freeboard</i>
Number in Register Book... <i>73646</i>		Builder... <i>Northam, Clark & Co</i>		Hull No... <i>514</i>	
Moulded dimensions <i>378.95 × 53.24 × 33.25</i> (85% = <i>28.26</i>)					
Moulded displacement at a moulded draught of 85 per cent. of moulded depth... <i>8750 @ 24'-0" draft = 6.3 coeff</i>					
Coefficient of fineness for use with tables... <i>.68</i>					

DEPTH FOR FREEBOARD.	CORRECTION FOR DEPTH.	CAMBER
Moulded depth ... <i>33.25</i>	(a) When D is greater than $\frac{L}{15}$ $\frac{378.95}{15} = 25.26$ $\frac{378.95}{130} = 2.915$ $(D - \frac{L}{15}) \times R = \dots$ $(33.25 - 25.26) \times 2.915 = +23.67$	Standard $\frac{53.24 \times 12}{50} = \dots$ <i>12.80</i>
Stringer plate ... <i>.04</i>	(b) When D is less than $\frac{L}{15}$ (if allowed). $(\frac{L}{15} - D) \times R = \dots$	Ship ... <i>11.50</i>
Sheathing in wells $T(\frac{L-S}{L}) = \dots$ <i>2 1/2" sheathing in wells none in way 7</i>	If restricted by height of superstructures ...	Difference ... <i>1.30</i>
Depth D = ... <i>33.38</i>		Restricted to ...
		Allowance = $\frac{\text{Difference}}{\frac{1.3}{4} \times .435} \times (1 - \frac{S}{L}) = +.14$

SUPERSTRUCTURES.

	Mean Covered Length S.	Effective Length S. (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed ...	36.75	36.75	7.5		36.75
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	137.50	137.50	8.0		137.50
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	40.00	40.00	7.5		40.00
" overhang ...					
Trunks forward ...					
" aft ...					
Tonnage opening ...					

TOTAL = *214.25* *214.25* *214.25*

Length of ship (**L**) = *378.95* *378.95* *378.95*

% Covered... = *56.5* *56.5* *56.5*

Corresponding %, corrected for absence of forecastle if required } **A** = *42.5*

Allowance ... = *40.59* *42.5* *17.25*

Correction for Bridge less than $\frac{1}{2}L$ if required } *✓*

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	46.25	47.89	46.25	1	46.25
2	19.75	21.31	19.75	4	79.00
3	5.00	5.27	5.00	2	10.00
4	9.50	10.54	9.50	4	19.00
5	38.00	42.62	38.00	4	152.00
6	89.00	95.78	89.00	1	89.00
F.P. 7					

Mean effective sheer ... = *395.25*

Standard sheer $\cdot 05 L + 5 =$ *21.95*

Difference (**Df**) ... = *23.95*

Allowance = $Df \times (\frac{.75 - S}{2L}) =$ *2.00*

If limited on account of amidship superstructure ... = *✓*

If limited on account of excess sheer ($1\frac{1}{2}$ 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.

Moulded Depth **D** = *33'-3"*

Plate = *1/2"*

rd = *33'-3 1/2"*

1 draught = *9'-6 1/4"*

ion for keel below base line = *23'-9 1/4"*

me draught = *31'-4"*

23'-10"

F. W. ALLOWANCE

Displacement = *8750*

Tons per inch = *36.1*

$\frac{8750}{40 \times 36.1} = 6.06$

TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient $\frac{.68 + .68}{1.36} =$ *65.08*

Correction for Depth ... *23.67*

" Superstructures ... *17.25*

" Sheer ... *.93*

" Camber ... *.14*

" * Thickness of deck *42.76*

" Scantlings, etc. *67.50*

will designed moulded draft *23'-9 Summer*

Summer Freeboard = *108.25 114.25*

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

Tropical Fresh Water Line (above center of Disc)	12
Fresh Water Line	6
Tropical Line	6
Winter Line (below ")	6
Winter North Atlantic Line	✓

Tropical Fresh Water Freeboard	8'-6 1/4"
Fresh Water	9'-0 1/4"
Tropical	9'-0 1/4"
Winter	10'-0 1/4"
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
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) Hinged wooden doors
Has the bridge an efficient steel bulkhead at the fore end? Yes
Give particulars of the means of closing the openings in this bulkhead no openings
Has the bridge an efficient steel bulkhead at the after end? Yes
Give particulars of the means of closing the openings in this bulkhead Hinged wooden doors
Has the forecastle an efficient steel bulkhead at the after end? Yes
Give particulars of the means of closing the openings in this bulkhead Hinged steel doors
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.
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	$3/8"$	4 coaming 44	$3/8"$	$7/16"$
Scantlings of stiffeners	$7" \times 3"$	$9" \times 3" \times 44$ B.A.	$3" \times 3"$	$3" \times 2 1/2"$
Spacing of stiffeners, and if bracketed	$27 1/2"$	$29" \times 30"$	$32"$	$32"$
Height of sills of openings above deck	$14"$ at wood deck	\checkmark	$17"$ at wood deck	$13"$ at wood 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 20'-3" x 16'-0"		No 2 25' x 16'		No 3 22'-6" x 16"		No 4 20' x 16'		
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.
COAMING. Height above top of DECK	$33"$		$33"$		$33"$		$33"$		
Thickness	Sides.....	44	44		44		44		
	Ends.....	44	44		44		44		
SHIFTING BEAMS OR WEB PLATES.	Number.....	3	4		3		3		
	Section and Scantlings.....	1 I 14"x6"x6"x44 lb	1 3/4" 2 I 14"x6"x6"x46 lb		1 I 14"x6"x6"x57 lb		1 I 14"x6"x6"x57 lb		
	Material.....	2 3/4" detail	3 1/4" detail		2 3/4" detail		2 3/4" detail		
* FORE AND AFTERS.	Number.....	7	7		7		7		
	Section and Scantlings.....	3 I 14"x6"x6"x57 lb	3 I 14"x6"x6"x57 lb		3 I 14"x6"x6"x57 lb		3 I 14"x6"x6"x57 lb		
	Material.....	Steel	Steel		Steel		Steel		
HATCHES Thickness	Number.....	7	7		7		7		
	Section and Scantlings.....	Detail -	Detail -		Detail -		Detail -		
	Material.....	Steel	Steel		Steel		Steel		
HATCHES Thickness	$3"$		$3"$		$3"$		$3"$		

* 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: $83'$ feet; aft: $84'$ feet.

Area of freeing ports required by regulations (Rules 30 and 100) forward: 16.6 sq. ft.; aft: 16.2 sq. ft.

No. Ft. x Ft.

Particulars of freeing ports fitted on each side of vessel

forward well	$4 - 4'0" \times 1'0"$	$= 17.5$ sq. ft. each side
after well	$2 - 14' \times 10'$	
forward well	$4 - 4'0" \times 1'0"$	$= 17.5$ sq. ft. each side
after well	$2 - 14' \times 10'$	

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 wooden plugs + chains

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

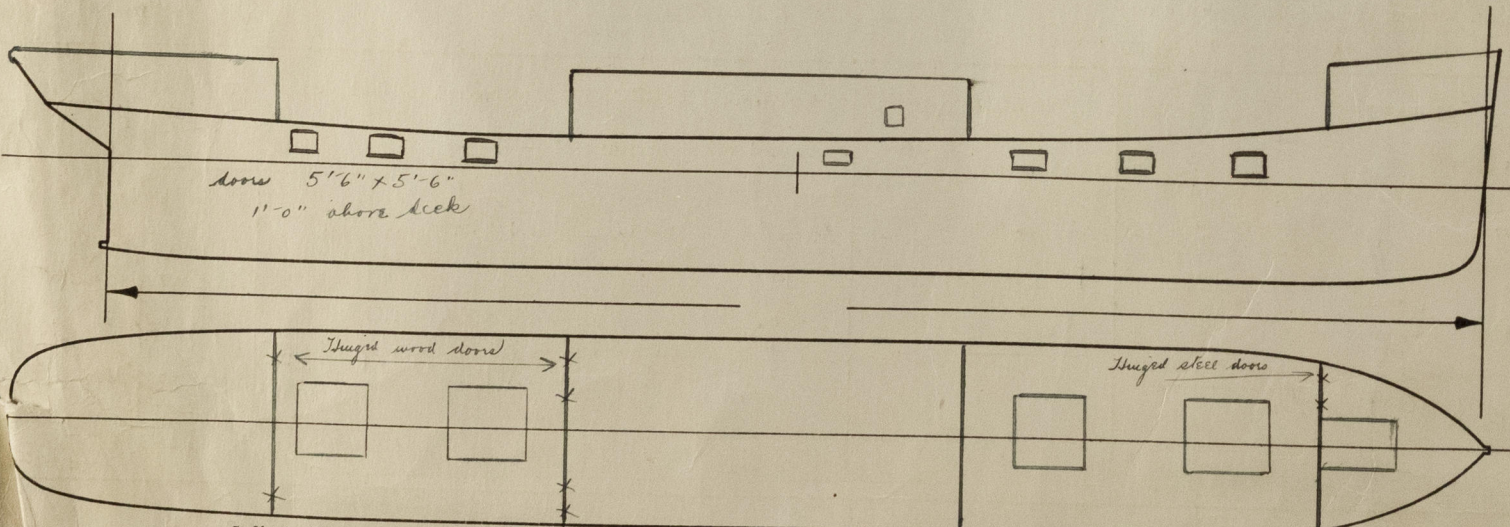
Is the gangway strong and efficiently braced fore and aft? Yes

Are the crew berthed in the forecastle? (Rule 96). Yes

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? 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.

els:

80 00 (N 3/4 9/6 8 55)
N 6. 9/6 8 25

Expenses (if any)

\$2.00

(Signed)

A. N. Murray's Register
Surveyor to Lloyd's Register of Shipping.

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Foundation