

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... *21 + 22nd Aug 1934*

Name of Surveyor... *J. W. Murray*

Ship's Name. <i>"Orefalu"</i>	Port of Registry and Nationality. <i>Cuba</i> <i>Honduras</i>	Official Number. <i>✓</i>	Gross Tonnage. <i>5221</i>	Date of Build. <i>1930</i> <i>4 mo.</i>	Particulars of Classification. <i>+10001 with freeboard</i>
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Number in Register Book... *73646*
 Builder... *Norwegian Shipbuilding Co.* Hull No... *514*
 Moulded dimensions *378.95 × 53.24 × 33.25* (85% = *28.26*)
 Moulded displacement at a moulded draught of 85 per cent. of moulded depth... *8750 @ 24'-0" draft = 63 coeff.*
 Coefficient of fineness for use with tables... *68*

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth	... 33.25	(a) When D is greater than $\frac{L}{15}$	$\frac{378.95}{15} = 25.26$ $\frac{378.95}{130} = 2.915$	Standard	$\frac{53.24 \times 12}{50} = \dots$ <i>12.80</i>
Stringer plate5"04	$(D - \frac{L}{15}) \times R = \dots$	$(33.25 - 25.26) \times 2.915 = +23.67$	Ship	... <i>11.50</i>
Sheathing in wells	<i>2 1/2" sheathing in wells</i> <i>None in way 7</i> <i>marking</i>	(b) When D is less than $\frac{L}{15}$ (if allowed).	$(\frac{L}{15} - D) \times R = \dots$	Difference	... <i>1.30</i>
Depth D =	... <i>33.38</i>	If restricted by height of superstructures	...	Restricted to	...
				Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S_1}{L}) = +.14$	

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S ₁ (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*

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	38.00
5	38.00	42.62	38.00	4	152.00
6	89.00	95.78	89.00	1	89.00
F.P. 7					

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 =

Mean effective sheer ... = *21.95*
 Standard sheer .05 L + 5 = *23.95*
 Difference (Df) ... = *2.00*
 Allowance = $Df \times (.75 - \frac{S}{2L}) = +.93$
 If limited on account of amidship superstructure ... ✓
 If limited on account of excess sheer (1/2 in. per 100 ft.) ... ✓

DRAFTS.

Moulded Depth D = *33'-3"*
 Plate = *1/2"*
 Mod Deck) *33'-3 1/2"*
 rd *9'-6 1/4"*
 1 draught *23'-9 1/4"*
 ion for keel below base line *3/4"*
 me draught *23'-10"*
77 - 5.94 say 6"

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 $\frac{.68 + .68}{1.36} =$
 Correction for Depth ... *23.67*
 " Superstructures ... *17.25*
 " Sheer ... *.93*
 " Camber ... *.14*
 " * Thickness of deck *42.76*
 " Scantlings, etc. *to correction*
23'-9 Summer
 Summer Freeboard = *108.25 114.25*

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

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" x 3"	9" x 3" x 44 BA.	3" x 3"	3" x 2 1/2"
Spacing of stiffeners, and if bracketed	27 1/2"	29" x 30"	32"	32"
Height of sills of openings above deck	14" at wood deck	✓	17" at wood deck	13" at wood deck

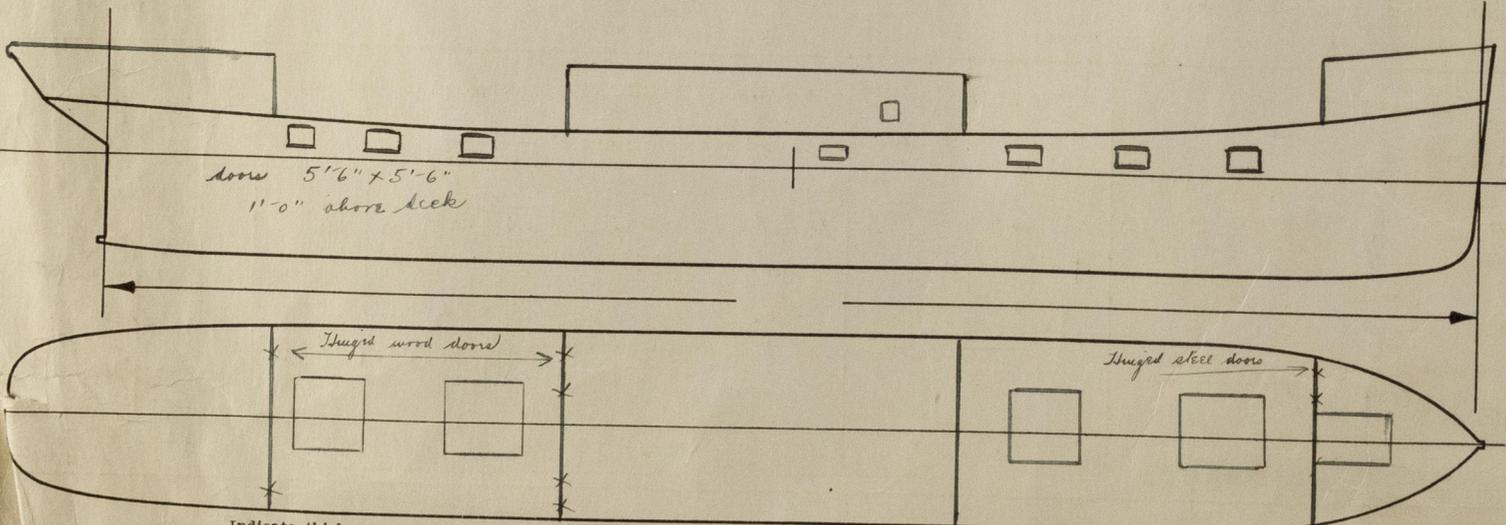
Particulars of weather deck hatchways. (In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

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'		Ship.
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	
COAMING. Height above top of DECK	33"		33"		33"		33"		
COAMING. 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" x 6" x 6" x 44 lb	1 7/8" 2 I 14" x 6" x 6" x 46 lb		1 I 14" x 6" x 6" x 57 lb.		1 I 14" x 6" x 6" x 57 lb.		
	Material.....	2 1/2" detail 3 14" x 6" x 6" x 57 lb	3 1/2" detail 3 14" x 6" x 6" x 57 lb		2 1/2" detail 3 14" x 6" x 6" x 57 lb		2 1/2" detail 3 14" x 6" x 6" x 57 lb		
* FORE AND AFTERS.	Number.....	None	None		None		None		
	Section and Scantlings.....	Detail -	7" ← 3 1/2" x 3" x 42 3 1/2" x 38"						
	Material.....		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: 81' 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" x 1'-0" = 17.5 sq. ft. each side
 2 - 14" x 10"
 after well } 4 - 4'-0" x 1'-0" = 17.5 sq. ft. each side
 2 - 14" x 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? ✓ 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.

Expenses (if any) \$ 2.00

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

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