

# DISCLOSED SECTION

## Lloyd's Register of Shipping

### SURVEYS FOR FREEBOARD - STEAMERS

Phila. Report No. 7010  
New York Office Index No. 203  
-5 DEC 1935

Port of Survey... Philadelphia  
Date of Survey... October 26th, 1935  
Name of Surveyor... W. Bennett

Ship's Name... **"H. C. FOLGER"**  
Number in Register Book... 25961  
Atlantic Refining Co.  
Moulded dimensions 435.0 x 56.0 x 33.5  
Moulded displacement at a moulded draught of 85 per cent. of moulded depth... 16040 tons  
Coefficient of fineness for use with tables... 809

Port of Registry and Nationality... PHILADELPHIA U.S.A.  
Official Number... 214615  
Gross Tonnage... 7086  
Date of Build... 1916-12

Particulars of Classification... +100 A1 "Carrying Petroleum in Bulk" "Longitudinal Framing"  
Hull No... 129

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Depth	33.50	(a) When D is greater than $\frac{L}{15}$		Standard	$\frac{56 \times 12}{50} = 13.45$
Correction	.05	$(D - \frac{L}{15}) \times R = (33.55 - 29.00) \times 3 = 13.65$		Ship	12.60
Depth D =	33.55	(b) When D is less than $\frac{L}{15}$ (if allowed).		Difference	1.45
		$(\frac{L}{15} - D) \times R =$		Restricted to	
		If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = \frac{1.45 \times 509}{4} = 18.48$	

SUPERSTRUCTURES.					
	Mean Covered Length S	Effective Length S <sub>e</sub> (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
enclosed (124.5 + 5.0)	129.50	129.50	7.75	-	129.50
overhang	4.50	2.25			2.25
enclosed					
overhang					
enclosed	42.00	42.00	7.75	-	42.00
overhang aft (5.5 + 1.25)	6.75	5.06			5.06
overhang forward	1.25	.62			.62
enclosed - Open	42.00	34.33	7.75	-	34.33
overhang					
forward					
aft					
opening					
TOTAL =	226.00	213.76			213.76
Length of ship (L) =	435.0	435.0			435.0
% Covered... =	51.94%	49.13%			49.13%

#### Sheer Forward

9.7 1 29.1  
38.7 3 116.1  
88.0 1 88.0  
233.2

#### Standard Sheer Forward

11.88 1 35.64  
47.55 3 142.65  
107.00 1 107.00  
285.29

Allowance ... = 42  
Correction for Bridge less than 2 L if required = 16.85  
Tanker, does not apply

SHEER.				
Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
4 5.00	53.50	4 5.00	1	4 5.00
1 8.95	23.78	1 8.95	4	7 5.80
4 7.5	5.94	4 7.5	2	9.50
9.70	1 1.88	9.70	4	1 9.40
3 8.70	4 7.55	3 8.70	2	15 4.80
8 8.00	1 0 7.00	8 8.00	4	8 8.00
			1	

If excess sheer forward and deficient sheer aft:-

Actual sheer aft / Standard sheer aft = Deficient  
Actual sheer forward / Standard sheer forward =  $\frac{233.2}{285.29} = 81.74\%$

allow 81.74% of open forecastle

Length of enclosed superstructure L

Forward of amidships =

Aft of amidships =

ive sheer ... = 18) 392.50  
er .05 L + 5 = 21.80  
Df) ... = 26.75  
Df x (.75 -  $\frac{S}{2L}$ ) = 4.95 (.75 - 2.59)  
account of amidship superstructure ... = 4.95  
account of excess sheer (1 1/2 in. per 100 ft.) ... = 2.43

DRAFTS.		F. W. ALLOWANCE		TABULAR FREEBOARD	
33' 6"		Displacement = 15180		Corrected for Coefficient	71.20
33' 6 1/4"		Tons per inch = 50.8		Correction for Depth	77.95
6' 5 1/4"				Superstructures	13.65
27' 1 1/2"				Sheer	2.43
2 1/4"				Camber	.18
27' 3 1/2"				Thickness of deck	-
				Scantlings, etc.	-
				Summer Freeboard =	77.36

FREEBOARD amidships from Centre of Disc to top of Deck Line:  
Tropical Fresh Water Line (above center of Disc) 14 1/2"  
Fresh Water Line " " 7 1/2"  
Tropical Line " " 6 1/2"  
Winter Line (below " " ) 6 1/2"  
Winter North Atlantic Line " " 11"

Upper Deck:-  
Tropical Fresh Water Freeboard  
Fresh Water  
Tropical  
Winter  
Winter North Atlantic



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). Two W.T. 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. Two W. T. Doors  
Has the bridge an efficient steel bulkhead at the after end? Yes  
Give particulars of the means of closing the openings in this bulkhead. Tonnage Doors, wood in channels  
Has the forecastle an efficient steel bulkhead at the after end? No, open  
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? -  
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	.50	.50	.50	
Scantlings of stiffeners	10x3 1/2 x 1/2" B.A.	8x3 1/2 x 1/2" B.A.	5x3 1/2 x 1/2" angle	
Spacing of stiffeners, and if bracketed	33" Yes	36" Yes	36" Yes	
Height of sills of openings above deck	18"	18"	18"	

Particulars of weather deck hatchways.

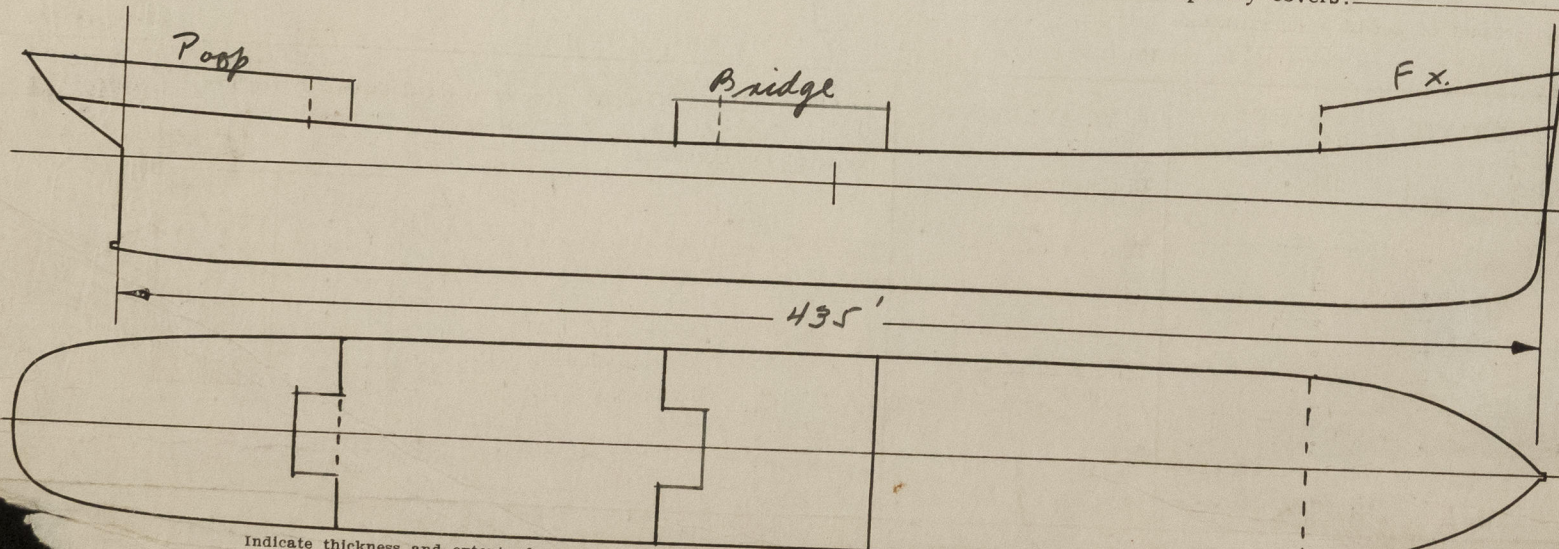
(In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

Position and Size.		No.1 10' x 10'															
Item.		Ship.		Rule.		Ship.		Rule.		Ship.		Rule.		Ship.		Rule.	
COAMING	Height above top of DECK	24"				Oil hatchways 6' x 4' (18)											
	Thickness {	Sides.....	.44				" " 4' x 2'6" (10)										
		Ends.....	.44				Coamings 8 x 3 1/2 x 1/2 angles with O.T. covers & stiffened										
SHIFTING BEAMS OR WEB PLATES.	Number.....	1 plate .31															
	Section and Scantlings.....	7/16 angles 3x3x.40															
	Material.....	steel															
* FORE AND AFTERS.	Number.....																
	Section and Scantlings.....																
	Material.....																
HATCHES Thickness .....		3" wood		now fitted with steel covers		See Newport News report 4909 dated 21/11/31											

\* 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? Not required  
Length of bulwarks in wells—forward: \_\_\_\_\_ feet; aft: \_\_\_\_\_ feet.  
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 { well } \_\_\_\_\_ sq. ft.  
{ after } \_\_\_\_\_ sq. ft.  
{ 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? all f. & a.  
Is the gangway strong and efficiently braced fore and aft? Yes  
Are the crew berthed in the forecastle? (Rule 96). No  
In oil tankers, are the bulwarks open for at least half the length of the exposed portion of the weather deck? (Rule 100). Yes, 60%  
State spacing of supports 13 feet  
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 freeboard deck.

"ALBERT HILL"

\$3.50 (New York A/c)  
1.50 (Phila. A/c)

Expenses (if any)

(signed) W. BENNETT

Surveyor to Lloyd's Register of

© 2021

Lloyd's Register  
Foundation