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Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD - STEAMERS

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

New York Office Index No. 153

Port of Survey... New York

Date of Survey... Oct 13th 1932

Name of Surveyor... W. Bennett

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
<i>Acme</i>	<i>New York</i>	<i>214 173</i>	<i>6878</i>	<i>1916-6</i>	<i>1100A1. "Barry Pitt in bulk"</i>
Number in Register Book... <i>56484</i>	<i>U.S.A.</i>				<i>Long Traming. S. NYK No. 1238</i>
Owner... <i>Standard Vacuum Transp. Co.</i>		Builder... <i>Union Iron Works</i>			Hull No. <i>125</i>
Moulded dimensions <i>435.0' x 56.0' x 33.5'</i> (85% = <i>28.47'</i>)					
Moulded displacement at a moulded draught of 85 per cent. of moulded depth... <i>16030 Tons</i>					
Coefficient of fineness for use with tables... <i>809</i>					

DEPTH FOR FREEBOARD.	CORRECTION FOR DEPTH.	CAMBER
Moulded depth ... <i>33.50'</i>	(a) When D is greater than $\frac{L}{15}$	Standard $\frac{56 \times 12}{50} = 13.46$
Stringer plate ... <i>(64")</i> ... <i>.05'</i>	$(D - \frac{L}{15}) \times R = (33.55 - 29.00) \times 3 = +13.65$	Ship ... <i>12.00</i>
Sheathing in wells	(b) When D is less than $\frac{L}{15}$ (if allowed).	Difference ... <i>1.45</i>
$T(\frac{L-S}{L}) =$... <i>✓</i>	$(\frac{L}{15} - D) \times R =$... <i>✓</i>	Restricted to ...
Depth D = ... <i>33.55'</i>	If restricted by height of superstructures ... <i>✓</i>	Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = \frac{1.45}{4} \times (1 - \frac{12.00}{13.46}) = .13$

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S _e (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed ...	<i>106.25</i>	<i>106.25</i>	<i>7.5</i>	<i>✓</i>	<i>106.25</i>
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed <i>Open</i> ...	<i>50.00</i>	<i>25.00</i>	<i>7.5</i>	<i>✓</i>	<i>25.00</i>
" overhang aft ...					
" overhang forward ...					
Fore enclosed <i>Open</i> ...	<i>42.00</i>	<i>34.33</i>	<i>7.5</i>	<i>✓</i>	<i>34.33</i>
" overhang ...					
Trunks forward ...					
" aft ...					
Tonnage opening ...					

Sheer Forward

9.68' 3 27.04
38.72' 3 116.16
88.00' 1 88.00
233.20

Standard Sheer Forward

11.89' 3 35.67
47.55' 3 145.65
107.00' 1 107.00
385.33

TOTAL = *148.25* *165.57* *165.57*Length of ship (L) = *435* *435* *435*% Covered... = *45.57%* *38.06%* *38.06%*Corresponding %, corrected for absence of forecastle if required } **A** = *Tanker* **B** = *29.06* Correction for Bridge less than 2 L if required } *Tanker*Allowance ... = *42* *x .2906* = *12.26*

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	<i>45.00</i>	<i>53.50</i>	<i>45.00</i>	<i>1</i>	<i>45.00</i>
2	<i>18.95</i>	<i>23.77</i>	<i>18.95</i>	<i>4</i>	<i>75.80</i>
3	<i>47.5</i>	<i>59.5</i>	<i>47.5</i>	<i>2</i>	<i>95.0</i>
4				<i>4</i>	
5	<i>9.70</i>	<i>11.89</i>	<i>9.70</i>	<i>2</i>	<i>19.40</i>
6	<i>38.70</i>	<i>47.55</i>	<i>38.70</i>	<i>4</i>	<i>154.80</i>
F.P. 7	<i>88.00</i>	<i>107.00</i>	<i>88.00</i>	<i>1</i>	<i>88.00</i>

If excess sheer forward and deficient sheer aft:

Actual sheer aft

Standard sheer aft

Actual sheer forward

Standard sheer forward

allowed 51.75% forward

Length of enclosed superstructure

LForward of amidships = *✓*Aft of amidships = *✓*

Mean effective sheer ...	= <i>392.50</i>
Standard sheer .05 L + 5 =	= <i>21.80</i>
Difference (Df) ...	= <i>26.75</i>
Allowance = $Df \times (\frac{S}{L} - \frac{225}{75}) = 4.95 (75 - 225)$	= <i>4.95</i>
If limited on account of amidship superstructure ...	= <i>12.60</i>
If limited on account of excess sheer (1 1/2 in. per 100 ft.) ...	= <i>✓</i>

DRAFTS.	F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required)	
Moulded Depth D = <i>33' 6"</i>	Displacement = <i>15050</i>	Corrected for Coefficient $\frac{809 + .68}{1.36} = 1.447$	<i>71.20</i>
Stringer Plate = <i>3/4"</i>	Tons per inch = <i>50.95</i>	Correction for Depth ... <i>13.66</i>	<i>11.65</i>
Freeboard = <i>6' 10 1/4"</i>		" Superstructures ... <i>12.25</i>	
Moulded draught = <i>26' 8 1/2"</i>		" Sheer ... <i>2.00</i>	
Addition for keel below base line = <i>1 3/4"</i>	$\frac{15050}{40 \times 50.95} = 7.38$	" Camber ... <i>22</i>	
Extreme draught = <i>36' 10 1/4"</i>		" Thickness of deck ...	
		" Scantlings, etc. ...	
		Summer Freeboard = <i>83.23</i>	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, *Steel* upper DeckTropical Fresh Water Line (above center of Disc) *1 1/4"*Fresh Water Line " " *1 1/4"*Tropical Line " " *6 3/4"*Winter Line (below " ") *6 3/4"*Winter North Atlantic Line " " " *11"*

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

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) No openings
Has the bridge an efficient steel bulkhead at the fore end? No open
Give particulars of the means of closing the openings in this bulkhead ✓
Has the bridge an efficient steel bulkhead at the after end? No open
Give particulars of the means of closing the openings in this bulkhead ✓
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? Covered by Poop
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)? ✓

Particulars of bulkheads of erections:

	Poop or Raised Quarter-Deck bulkhead	Bridge front bulkhead	Bridge after bulkhead	Forecastle bulkhead
Thickness of bulkhead plating	<u>Ordn. 50 plg. 38</u>			
Scantlings of stiffeners	<u>BA 10 x 3 1/2 x 50</u>			
Spacing of stiffeners, and if bracketed	<u>36 Bracketed</u>	<u>Open</u>	<u>Open</u>	
Height of sills of openings above deck	<u>✓</u>			

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.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Item.										
Height above top of DECK	<u>24</u>		<u>8"</u>		<u>8"</u>					
Thickness										
Sides.....	<u>44</u>		<u>18 x 3 1/2 x 50</u>		<u>18 x 3 1/2 x 50</u>					
Ends.....	<u>44</u>		<u>✓</u>		<u>✓</u>					
SHIFTING BEAMS OR WEB PLATES.										
Number.....	<u>✓</u>		<u>✓</u>		<u>✓</u>					
Section and Scantlings.....	<u>✓</u>		<u>✓</u>		<u>✓</u>					
Material.....	<u>✓</u>		<u>✓</u>		<u>✓</u>					
* FORE AND AFTERS.										
Number.....	<u>3</u>		<u>✓</u>		<u>✓</u>					
Section and Scantlings.....	<u>7 x 7 In. Bul 8 x 44</u>		<u>✓</u>		<u>✓</u>					
Material.....	<u>Steel</u>		<u>✓</u>		<u>✓</u>					
HATCHES Thickness.....			<u>38</u>		<u>38</u>					
Remarks.....			<u>Steel Stiffened</u>		<u>Steel Stiffened</u>					

* 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: _____ feet; aft: _____ feet.

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

Particulars of freeing ports fitted on each side of vessel

forward well	{	No. Ft. × Ft.	{	sq. ft.
				sq. ft.
				sq. ft.

Open rails for half length of after well

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? Full F & A

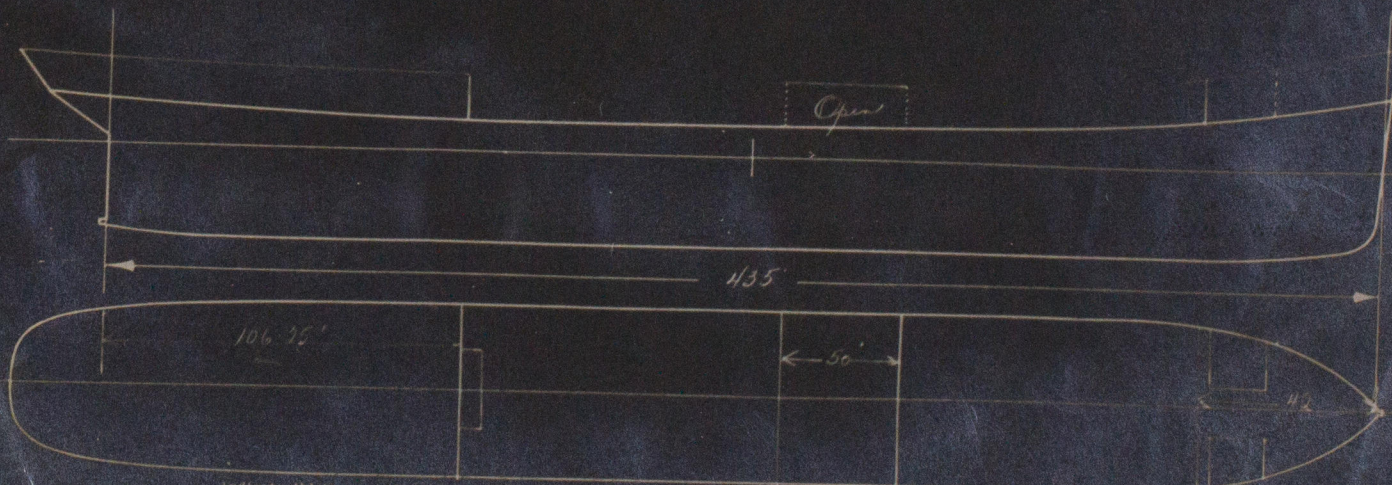
Is the gangway strong and efficiently braced fore and aft? Yes

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? ✓



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 forecastle deck.

Sister vessel Paula

Expenses (if any) None

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longitudinal framing.

Actual Quarter Deck 2

Bridge House 2

Forecastle 2



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W1006-0175 2/2

Fee:

\$ 90

applied

Expe

Received by me