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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. 124
Port of Survey *New York*
Date of Survey *July 22, 1931*
Name of Surveyor *W. Bennett*

Ship's Name <i>S.S. "Cox Bolivar"</i>	Port of Registry and Nationality <i>San Diego, California</i>	Official Number <i>1524</i>	Gross Tonnage <i>9231</i> <i>8773</i>	Date of Build <i>1931</i>	Particulars of Classification <i>+10091 Long. Framing</i> <i>Carrying Deck in Bulk.</i>
Number in Register Book <i>30795</i>	<i>USA</i>				
Owner <i>Cox. Conv. S. S. Transp. Co.</i>	Builder <i>Swan, Hunter & Wigham Bk</i>			Hull No. <i>1465</i>	
Moulded dimensions <i>483</i> × <i>65.25</i> × <i>36.75</i>	(85% = <i>31.24</i>)				
Moulded displacement at a moulded draught of 85 per cent. of moulded depth. <i>22,420 tons</i>					
Coefficient of fineness for use with tables. <i>797</i>					

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER
Moulded depth	<i>36.75</i>	(a) When D is greater than $\frac{L}{15}$		Standard $\frac{65.25 \times 12}{50} = \dots$ <i>15.66</i>
Stringer plate	<i>(3/4)"</i>	$(D - \frac{L}{15}) \times R = \frac{(36.81 - 32.20)}{461} \times 3$	<i>+13.83</i>	Ship
Sheathing in wells } $T(\frac{L-S}{L}) =$	✓	(b) When D is less than $\frac{L}{15}$ (if allowed).		Difference
Depth D =	<i>36.81</i>	$(\frac{L}{15} - D) \times R = \dots$	✓	Restricted to
		If restricted by height of superstructures	✓	Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S_1}{L}) = \frac{34}{4} \times 1.57$

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S ₁ (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	<i>117.00</i>	<i>117.00</i>	<i>8.0</i>	✓	<i>117.00</i>
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	<i>41.50</i>	<i>39.89</i>	<i>8.0</i>	✓	<i>39.89</i>
" overhang aft					
" overhang forward					
Fore enclosed	<i>49.75</i>	<i>49.75</i>	<i>8.0</i>	✓	<i>49.75</i>
" overhang					
Trunks forward					
" aft					
Tonnage opening					

TOTAL = $\frac{208.25}{483}$ / $\frac{206.64}{483}$ / $\frac{206.64}{483}$

Length of ship (L) = *483*

% Covered... = *43.11%* / *42.78%*

Corresponding %, corrected for absence of forecastle if required } *A = Tanker* / *B = 33.78%*

Allowance ... = *42* × *.3378* = *-14.19*

Correction for Bridge less than 2 L if required } *Tanker*

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	<i>57.31</i>	<i>58.30</i>	<i>57.31</i>	1	<i>51.31</i>
2	<i>6.06</i>	<i>25.62</i>	<i>6.06</i>	4	<i>24.24</i>
3	-	<i>6.41</i>	-	2	-
4	-	-	-	4	-
5	-	<i>12.82</i>	-	2	-
6	<i>11.50</i>	<i>51.24</i>	<i>11.50</i>	4	<i>46.00</i>
F.P. 7	<i>95.19</i>	<i>116.60</i>	<i>95.19</i>	1	<i>95.19</i>

If excess sheer forward and deficient sheer aft:-

Actual sheer aft = *Deficient*

Standard sheer aft = *Deficient*

Actual sheer forward = *Deficient*

Standard sheer forward = *Deficient*

Mean effective sheer ... = $\frac{216.74}{18} = 12.04$

Standard sheer .05 L + 5 = 29.15

Difference (Df) ... = 17.11

Allowance = $Df \times (\frac{S}{2L}) = 17.11 \times (\frac{.75 - .21}{2}) = +9.24$

If limited on account of amidship superstructure ... =

If limited on account of excess sheer (1 1/2 in. per 100 ft.) ... =

Length of enclosed superstructure L

Forward of amidships = ✓

Aft of amidships = ✓

DRAFTS.	F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required)
Moulded Depth D = <i>36' - 9"</i>	Displacement = <i>20303</i>	Corrected for Coefficient $\frac{.797 + .68}{1.36} = \frac{1.477}{1.36}$
Stringer Plate = <i>3/4"</i>	Tons per inch = <i>64.31</i>	Correction for Depth <i>13.83</i>
Freeboard <i>8 - 3 1/2"</i>	$\frac{20303}{40 \times 64.31} = 7.89$	" Superstructures <i>14.19</i>
Moulded draught <i>28' - 6 1/4"</i>		" Sheer <i>9.24</i>
Addition for keel below base line <i>2</i>		" Camber <i>.05</i>
Extreme draught <i>28' - 8 1/4"</i>		" Thickness of deck <i>-</i>
		" Scantlings, etc. <i>-</i>
		Summer Freeboard = <i>99.42</i>

FREEBOARD recommended amidships from centre of Disc to top of Deck Line, Wood (Steel), Deck:-

36.81

$\frac{8.12}{28.69} = 7.17$

$\frac{99.42}{7.17} = 13.86$

$13.86 + 7.17 = 21.03$

$21.03 + 7.89 = 28.92$

$28.92 + 8.12 = 37.04$

$37.04 - 8.12 = 28.92$

$28.92 - 7.17 = 21.75$

$21.75 - 7.89 = 13.86$

$13.86 - 7.17 = 6.69$

$6.69 + 7.17 = 13.86$

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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). Class 2 closing appliances
 Has the bridge an efficient steel bulkhead at the fore end? Yes
 Give particulars of the means of closing the openings in this bulkhead. Class 1 closing appliances
 Has the bridge an efficient steel bulkhead at the after end? Yes
 Give particulars of the means of closing the openings in this bulkhead. Class 2 closing appliances
 Has the forecastle an efficient steel bulkhead at the after end? Yes
 Give particulars of the means of closing the openings in this bulkhead. Class 2 closing appliances
 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	.44	.44	.32 Coaming .38	.32 Coaming .38
Scantlings of stiffeners	10x3 1/2 x .44 Pl.	10x3 1/2 x .44 Pl.	4x3x.38 angles	4x3x.38 angles
Spacing of stiffeners, and if bracketed	sp 30" Bl. top Long bottom	sp 29" Lugged	sp 30" none	sp 29" none
Height of sills of openings above deck	18"	18"	16"	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 Hatch		Q. S. Hatch							
	Ship. (9x12)	Rule.	Ship. (6x4)	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING. Height above top of DECK	30"	30"								
Thickness	Sides.....	.44	.40	✓						
	Ends.....	.44	.40	✓						
SHIFTING BEAMS OR WEB PLATES.	Number.....									
	Section and Scantlings.....	none ✓	✓	✓						
	Material.....									
* FORE AND AFTERS.	Number.....									
	Section and Scantlings.....	none ✓	✓	✓						
	Material.....									
HATCHES Thickness	Steel covers	✓	Steel covers	✓						
Remarks.....	stiffened		stiffened							

* 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.

No. Ft. x Ft. _____

Particulars of freeing ports fitted on each side of vessel
 forward well } _____ sq. ft.
 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

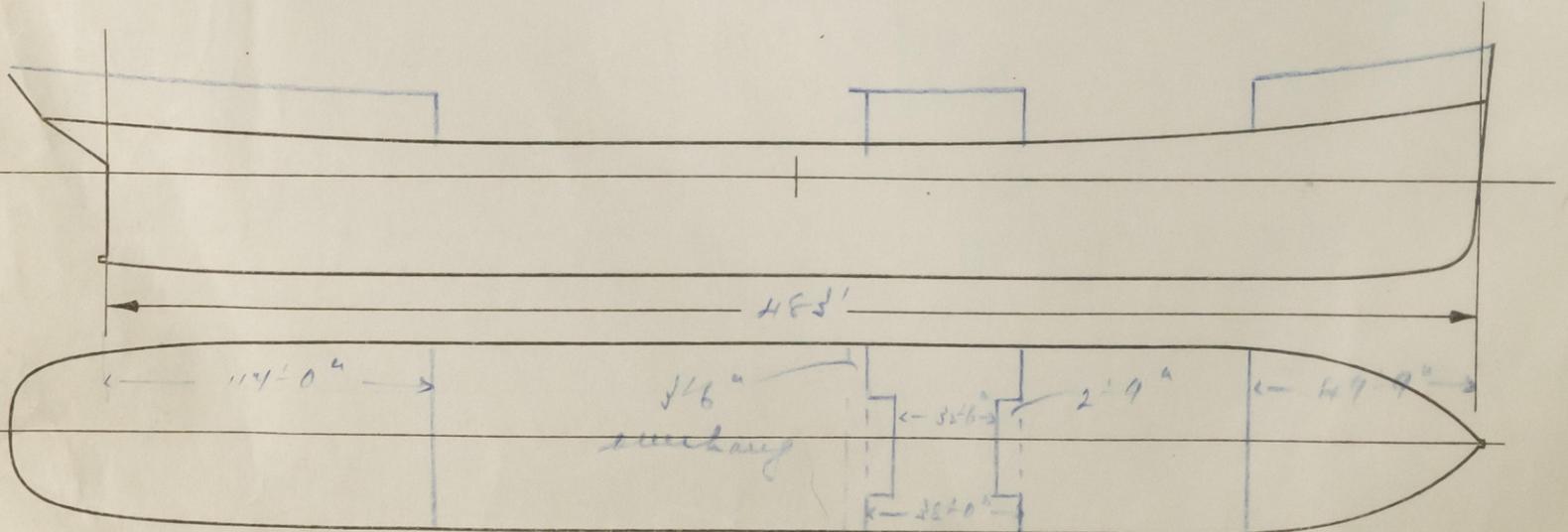
In oil tankers, what is the extent of the fore and aft gangway? after well Are the crew berthed in the forecastle? (Rule 96). No

Is the gangway strong and efficiently braced fore and aft? Yes State spacing of supports 7 feet.

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 freeboard deck.

Sister vessels: ✓

Fee: \$ 110.00 Expenses (if any) ✓