

WRECK SECTION No. 553 29714

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. 44
 Port of Survey *Philadelphia*
 Date of Survey *14th January 1931*
 Name of Surveyor *O. Narbutt*

Ship's Name <i>S.S. "Gangway"</i>	Port of Registry and Nationality <i>New York U.S.A.</i>	Official Number <i>221070</i>	Gross Tonnage <i>7003</i>	Date of Build <i>1921-2</i>	Particulars of Classification <i>+100A1</i>
Number in Register Book <i>71529</i>		Builder <i>Morrison S. B. Co.</i>		Hull No. <i>16th</i>	
Moulded dimensions <i>425.0</i> × <i>57.0</i> × <i>33.0</i> (85% = <i>28.05</i>)					
Moulded displacement at a moulded draught of 85 per cent. of moulded depth. <i>15610.0 × .995 = 15535</i>					
Coefficient of fineness for use with tables <i>.800</i>					

DEPTH FOR FREEBOARD.	CORRECTION FOR DEPTH.	CAMBER
Moulded depth ... <i>33.00</i>	(a) When D is greater than $\frac{L}{15}$	Standard $\frac{57 \times 12}{50} = \dots$ <i>13.68</i>
Superstructure plate ... <i>6.25</i>	$(D - \frac{L}{15}) \times R = (33.05 - 28.34) \times 3 = \dots$ <i>+14.13</i>	Ship ... <i>14.00</i>
Depth in wells } T $(\frac{L-S}{L})$ =	(b) When D is less than $\frac{L}{15}$ (if allowed).	Difference ... <i>32</i>
Depth D = ... <i>33.05</i>	$(\frac{L}{15} - D) \times R = \dots$	Restricted to ...
	If restricted by height of superstructures ...	Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = \frac{32 \times .543}{4} = \dots$ <i>-0.4</i>

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S _e (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed ...	<i>105.75</i>	<i>105.75</i>	<i>8.0</i>		<i>105.75</i>
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	<i>36.00</i>	<i>36.00</i>	<i>8.0</i>		<i>36.00</i>
" overhang aft + houses ...	<i>12.00</i>	<i>10.00</i>			<i>10.00</i>
" overhang forward ...	<i>2.00</i>	<i>1.00</i>			<i>1.00</i>
Forecastle enclosed ...	<i>41.25</i>	<i>41.25</i>	<i>8.0</i>		<i>41.25</i>
" overhang ...					
Trunks forward ...					
" aft ...					
Tonnage opening ...					
TOTAL =	<i>197.00</i>	<i>194.00</i>			<i>194.00</i>

Length of ship (L) = *425*
 % Covered... = *46.35%*
 Corresponding % corrected for absence of forecastle if required } **A** = *Tanker* } **B** = *36.64%*
 Allowance ... = *42.0* × *.3664* = *-15.39*

Sheer Aft

<i>56.0</i>	<i>1</i>	<i>56.0</i>
<i>20.0</i>	<i>3</i>	<i>60.0</i>
<i>-</i>	<i>3</i>	<i>-</i>
<i>-</i>	<i>1</i>	<i>-</i>
		<i>116.0</i>

Standard Sheer Aft

<i>52.5</i>	<i>1</i>	<i>52.50</i>
<i>23.34</i>	<i>3</i>	<i>70.02</i>
<i>5.83</i>	<i>3</i>	<i>17.49</i>
	<i>1</i>	<i>-</i>
		<i>140.01</i>

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	<i>56.0</i>	<i>52.5</i>	<i>56.0</i>	<i>1</i>	<i>56.00</i>
2	<i>20.0</i>	<i>23.34</i>	<i>20.0</i>	<i>4</i>	<i>80.00</i>
3	<i>-</i>	<i>5.83</i>	<i>-</i>	<i>2</i>	<i>-</i>
4	<i>-</i>	<i>-</i>	<i>-</i>	<i>4</i>	<i>-</i>
5	<i>21.75</i>	<i>11.67</i>	<i>21.75</i>	<i>3</i>	<i>43.50</i>
6	<i>64.25</i>	<i>46.66</i>	<i>64.25</i>	<i>4</i>	<i>257.00</i>
F.P. 7	<i>127.0</i>	<i>105.0</i>	<i>127.0</i>	<i>1</i>	<i>127.00</i>
				<i>18)</i>	<i>563.50</i>

Mean effective sheer ... = *31.30*
 Standard sheer .05 L + 5 = *26.25*
 Difference (Df) ... = *5.05*
 Allowance = $Df \times (.75 - \frac{S}{2L}) = 4.95(.75 - .233) = \dots$ *-2.5662*
 If limited on account of amidship superstructure ... = *✓*
 If limited on account of excess sheer (1 1/2 in. per 100 ft.) ... = *✓*

DRAFTS. Moulded Depth D = <i>33' 0"</i> Superstructure Plate = <i>1/2"</i> Draught ... <i>33' 0 1/2"</i> Moulded draught ... <i>27' 1 3/4"</i> Allowance for keel below base line ... <i>2 3/8"</i> Net draught ... <i>27' 4 1/8"</i>	F. W. ALLOWANCE Displacement = <i>15060</i> Tons per inch = <i>49.67</i> $\frac{15060}{40 \times 49.67} = 7.58$	TABULAR FREEBOARD (corrected for flush deck if required) = <i>68.65</i> Corrected for Coefficient $\frac{.800 + .68}{1.36} = \dots$ <i>74.7072</i> Correction for Depth ... <i>14.13</i> Superstructures ... <i>15.39</i> Sheer ... <i>2.5662</i> Camber ... <i>.04</i> Thickness of deck ... Scantlings, etc. ... Summer Freeboard = <i>70.84</i>
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FREEBOARD recommended amidships from centre of Disc to top of Deck Line, **Wood (Steel) Deck**:-

Tropical Fresh Water Line above centre of Disc
Fresh Water Line	"	...
Tropical Line	"	...
Winter Line	below	...
Winter North Atlantic Line	"	...

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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) 2 hinged steel N.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 2 hinged steel N.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 hinged steel N.T. doors
 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)? Yes

Particulars of bulkheads of erections:

	Poop or Raised Quarter-Deck bulkhead	Bridge front bulkhead	Bridge after bulkhead	Forecastle bulkhead
Thickness of bulkhead plating	7/16	7/16 Coaming 1/2"	5/16 Coaming 3/8"	
Scantlings of stiffeners	[10x3 3/8 x 3 3/8 x .43 llw]	[8x3 1/2 x 3 1/2 x .48	L 5x3" x 5/16"	
Spacing of stiffeners, and if bracketed	28" Yes	36" Yes	36" No	
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 8'8" x 14'8"		20 O.T. Hatch 6'0" x 4'0"		10 O.T. Hatch 4'0" x 2'4"					
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING Height above top of DECK	24"		L 8x3 1/2 x 7/16		L 8x3 1/2 x 7/16					
Thickness	Sides.....	.44								
	Ends.....	.44								
SHIFTING BEAMS OR WEB PLATES	Number.....	1								
	Section and Scantlings.....	11 12x3/8"								
	Material.....	11 3x3x7/16								
* FORE AND AFTERS	Number.....									
	Section and Scantlings.....									
	Material.....									
HATCHES Thickness	1/2"		7/32 steel cover		7/32 steel cover					
Remarks	Steel		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: 114 feet; aft: 914 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 } after } _____ 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

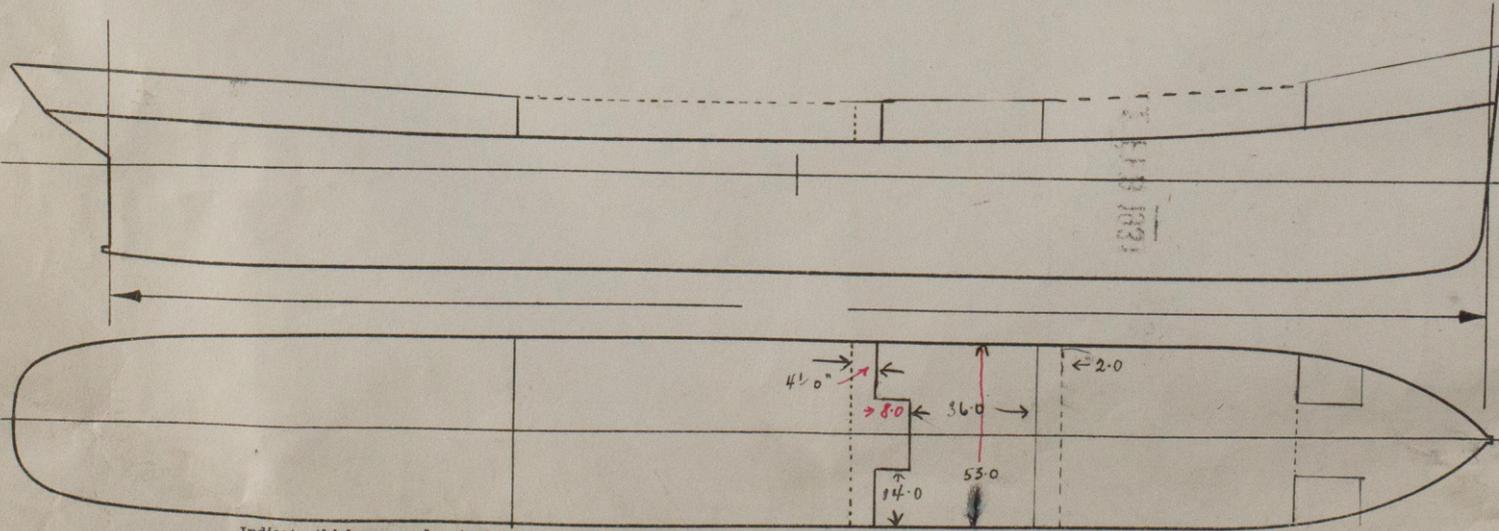
In oil tankers, what is the extent of the fore and aft gangway? Fore + Aft Poop Are the crew berthed in the forecastle? (Rule 96) No

Is the gangway strong and efficiently braced fore and aft? Yes State spacing of supports 9 feet 6"

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.

Sister vessels: "Brokenhead" + "Vacuum"

Fee: \$100.00

Expenses (if any): \$300

(Signed) O. Marshall
 Surveyor to Lloyd's Register of Shipping

