

WRECK SECTION

Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD - STEAMERS

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

27806

New York Office Index No. 68
 Port of Survey *Mobile Ala*
 Date of Survey *1st February 1931*
 Name of Surveyor *L. S. Quay*

Ship's Name <i>S.S. Shenandoah</i>	Port of Registry and Nationality <i>Wilmington U.S.A.</i>	Official Number <i>217920</i>	Gross Tonnage <i>6531</i>	Date of Build <i>1919-6</i>	Particulars of Classification <i>+ 100 A 1</i>
Number in Register Book <i>84157</i>		Owner <i>The Texas Company</i>		Builder <i>W. L. & Co. S. S. Co.</i>	
Moulded dimensions <i>45.0' x 56.0' x 32.83'</i> (85% = <i>27.9'</i>)		Moulded displacement at a moulded draught of 85 per cent. of moulded depth <i>14260 Tons</i>		Coefficient of fineness for use with tables <i>.800</i>	

DEPTH FOR FREEBOARD.	CORRECTION FOR DEPTH.	CAMBER
Moulded depth ... <i>32.83</i>	(a) When D is greater than $\frac{L}{15}$	Standard $\frac{56 \times 12}{50} = \dots$ <i>13.45</i>
Stringer plate ... <i>.66</i>	$(D - \frac{L}{15}) \times R = (32.83 - 27.67) \times 3 \dots$ <i>+ 15.63</i>	Ship ... <i>14.00</i>
Sheathing in wells } $T(\frac{L-S}{L}) =$	(b) When D is less than $\frac{L}{15}$ (if allowed).	Difference ... <i>.55</i>
Depth D = <i>32.88</i>	$(\frac{L}{15} - D) \times R = \dots$	Restricted to ...
	If restricted by height of superstructures	Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = \frac{.55 \times .585}{4} = \dots$ <i>.08</i>

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S _e (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	<i>107.00</i>	<i>107.00</i>	<i>8.0</i>	<input checked="" type="checkbox"/>	<i>107.00</i>
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	<i>28.50</i>	<i>28.50</i>	<i>8.0</i>	<input checked="" type="checkbox"/>	<i>28.50</i>
" overhang aft	<i>6.00</i>	<i>4.50</i>		<input checked="" type="checkbox"/>	<i>4.50</i>
" overhang forward					
F'cle enclosed <i>Open</i>	<i>33.00</i>	<i>32.30</i>	<i>8.0</i>	<input checked="" type="checkbox"/>	<i>32.30</i>
" overhang					
Trunks forward					
" aft					
Tonnage opening					
TOTAL =	<i>174.50</i>	<i>172.30</i>			<i>172.30</i>
Length of ship (L) =	<i>415</i>	<i>415</i>			<i>415</i>
% Covered ... =	<i>42.05%</i>	<i>41.57%</i>			<i>41.57%</i>

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

Allowance ... = *4.2* × *.32517* = *-13.668*

Sheer Forward

-	1	-
13.7	3	41.1
43.2	3	129.6
98.0	1	98.0
		268.7

Standard Sheer Forward

-	1	-
11.34	3	34.02
45.84	3	137.52
103.00	1	103.00
		274.54

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	<i>50.0</i>	<i>51.5</i>	<i>50.0</i>	1	<i>50.00</i>
2	<i>17.0</i>	<i>22.92</i>	<i>17.0</i>	4	<i>68.00</i>
3	<i>1.3</i>	<i>5.67</i>	<i>1.3</i>	2	<i>2.60</i>
4	-	-	-	4	-
5	<i>13.7</i>	<i>11.34</i>	<i>13.7</i>	2	<i>27.40</i>
6	<i>43.2</i>	<i>45.84</i>	<i>43.2</i>	4	<i>172.80</i>
F.P. 7	<i>98.0</i>	<i>103.00</i>	<i>98.0</i>	1	<i>98.00</i>

If excess sheer forward and deficient sheer aft:—

Actual sheer aft / Standard sheer aft =

Actual sheer forward / Standard sheer forward = $\frac{268.7}{274.54} = 97.86\%$

allow 97.86% of open T_s

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>32' 10"</i>	Displacement = <i>14260</i>	Corrected for Coefficient $\frac{.800 + .68}{1.36} =$	<i>66.45</i>
Stringer Plate = (or Wood Deck) <i>3/4"</i>	Tons per inch = <i>48.5</i>		<i>71.98</i>
Freeboard <i>32' 10 3/4"</i>		Correction for Depth ... <i>15.63</i>	
Moulded draught <i>6' 3 1/2"</i>		" Superstructures ... <i>13.66</i>	
Addition for keel below base line <i>2 1/4"</i>	$\frac{14260}{40 \times 48.5} = 7.35$	" Sheer ... <i>1.34</i>	
Extreme draught <i>26' 9 3/4"</i>		" Camber ... <i>.08</i>	
		" Thickness of deck ...	
		" Scantlings, etc. ...	
		<i>16.97</i> <i>13.74</i> <i>+ 3.23</i>	
		Summer Freeboard = <i>75.21</i>	

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

Tropical Fresh Water Line above centre of Disc	...	<i>6 3/4"</i>
Fresh Water Line	" " "	<i>13 3/4"</i>
Tropical Line	" " "	<i>7 1/4"</i>
Winter Line	below " " "	<i>6 1/2"</i>
Winter North Atlantic Line	" " "	<i>6 3/4"</i>

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 No 1022-0229

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? Yes
 Give particulars of the means of closing the openings in this bulkhead. Flanged steel or J. floors
 Has the bridge an efficient steel bulkhead at the after end? Yes
 Give particulars of the means of closing the openings in this bulkhead. Steel plates secured by Hook Bolts 12" apart not lapped
 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 fore
 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:

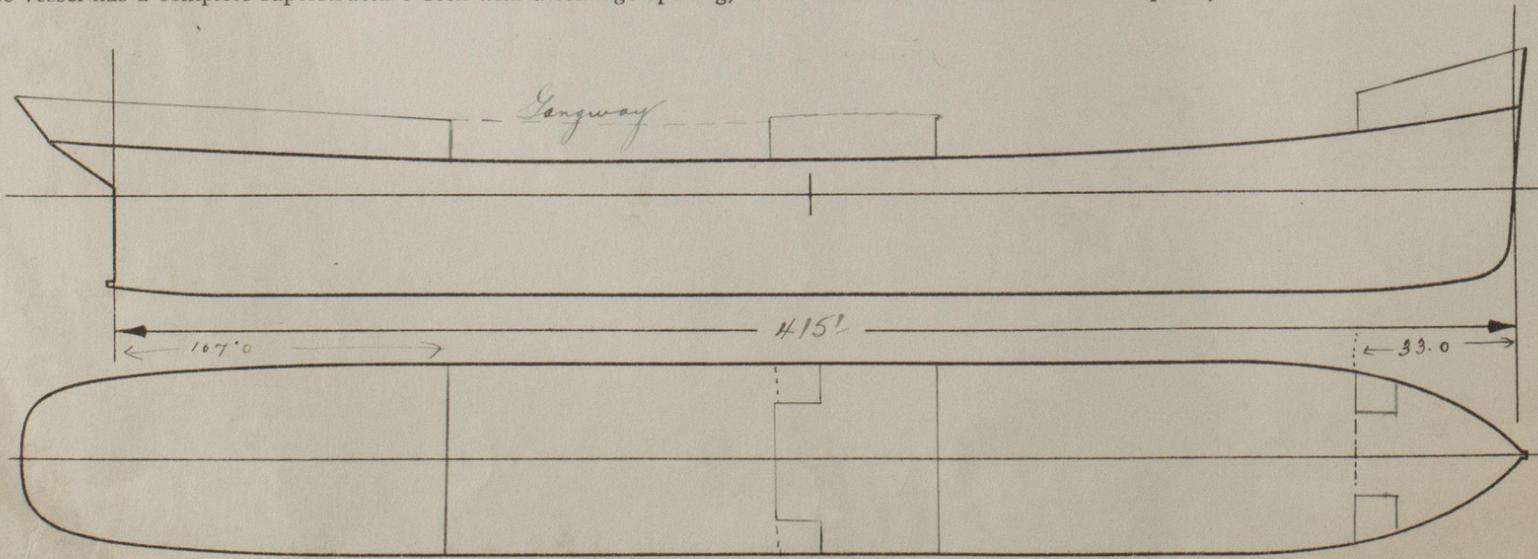
	Poop or Raised Quarter-Deck bulkhead	Bridge front bulkhead	Bridge after bulkhead	Forecastle bulkhead
Thickness of bulkhead plating	7/16	7/16" Coaming 1/2"	3/8	
Scantlings of stiffeners	Two horizontal 9x3 1/2 x 1/2"	9" x 3 1/2 x 7/16" Dist. Angle	3 1/2 x 3 1/2 x 7/16"	Open
Spacing of stiffeners, and if bracketed	Built angle up 30°	30" Apart - Bracketed		
Height of sills of openings above deck	Yes	21"	12"	

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 9'0" x 15'0"		16 O.J. Cargo Hatchways 5'3" x 6'9"		14 O.T. Summer Hatchways 7'0" x 4'0"		2 Bunkers Hatchways 7'0" x 4'0"		Ship.	Ru.
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.		
COAMING										
Height above top of DECK	24"		24"		30"		24"			
Thickness	Sides.....	7/16"	7/16"		7/16"		7/16"			
	Ends.....	7/16"	7/16"		7/16"		7/16"			
SHIFTING BEAMS OR WEB PLATES.	Number.....									
	Section and Scantlings.....	✓	✓	✓	✓	✓	✓	✓		
	Material.....									
* FORE AND AFTERS.	Number.....	✓	✓	✓	✓	✓	✓	✓		
	Section and Scantlings.....									
	Material.....									
HATCHES Thickness	Steel Angled Plate		Steel Angled		Steel Angled		Steel Angled			
Remarks.....	covered		covered		covered		covered			

* 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. None
 Area of freeing ports required by regulations (Rules 30 and 100) forward: _____ sq. ft.; aft: _____ sq. ft.
 Particulars of freeing ports fitted } forward } Open Rails Full Length sq. ft.
 on each side of vessel } after } Open Rails Full Length 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? Bridge to Poop Are the crew berthed in the forecastle? (Rule 98). No
 Is the gangway strong and efficiently braced fore and aft? Yes State spacing of supports 9 feet. Bracketed
 In oil tankers, are the bulwarks open for at least half the length of the exposed portion of the weather deck? (Rule 100). No bulwarks
 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: "Harvester" "Occidental" "Illinois" "Argon" etc.

Fee: \$90.00

Expenses (if any)

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 Surveyor to Lloyd's Register of Shipping
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