

# WRECK SECTION No. 553

## 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 14<sup>th</sup> 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</i> × <i>.995</i> = <i>15535</i>					
Coefficient of fineness for use with tables... <i>.800</i>					

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth ...	33.00	(a) When <b>D</b> is greater than $\frac{L}{15}$		Standard $\frac{57 \times 12}{50} =$	13.68
Superstructure plate ...	.05	$(D - \frac{L}{15}) \times R = (33.05 - 28.34) \times 3 =$	+ 14.13	Ship ...	14.00
Shoring in wells		(b) When <b>D</b> is less than $\frac{L}{15}$ (if allowed).		Difference ...	.32
$T \left( \frac{L-S}{L} \right) =$		$(\frac{L}{15} - D) \times R =$		Restricted to ...	
Depth <b>D</b> =	33.05	If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) =$	$\frac{.32}{4} \times .543 = .04$

#### SUPERSTRUCTURES.

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

Sheer aft

56.0	1	56.0
20.0	3	60.0
-	3	-
-	1	-
		116.0

Standard Sheer aft

52.5	1	52.50
23.34	3	70.02
5.83	3	17.49
	1	
		140.01

TOTAL =  $\frac{197.00}{194.00}$  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  
Correction for Bridge less than 2 L if required } Tanker does not apply

#### SHEER.

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

If excess sheer forward and deficient sheer aft:-

Actual sheer aft  
Standard sheer aft =  $\frac{116.0}{140.01} = 82.85\%$   
Actual sheer forward  
Standard sheer forward =

Length of enclosed superstructure L

Forward of amidships =

Aft of amidships =

Mean effective sheer ... =  $\frac{563.50}{18} = 31.30$   
Standard sheer .05 L + 5 =  $\frac{26.25}{18} = 1.46$   
Difference (Df) ... = 5.05  
Allowance =  $Df \times \left( \frac{.75 - \frac{S}{2L}}{.75} \right) = 4.95 \left( \frac{.75 - .233}{.75} \right) = 2.5662$   
If limited on account of amidship superstructure ... =  
If limited on account of excess sheer (1½ in. per 100 ft.) ... =

DRAFTS.		F. W. ALLOWANCE		TABULAR FREEBOARD (corrected for flush deck if required)	
Moulded Depth <b>D</b> =	33' 0"	Displacement =	15060	Corrected for Coefficient $\frac{.800 + .68}{1.36} =$	68.65
Superstructure Plate =	1/2"	Tons per inch =	49.67		74.7072
Board	33' 0 1/2"			Correction for Depth ...	14.13
Moulded draught	5' 10 3/4"			" Superstructures ...	15.39
Allowance for keel below base line	27' 1 3/4"			" Sheer ...	2.5662
Net draught	27' 4 1/8"			" Camber ...	.04
				" Thickness of deck ...	-
				" Scantlings, etc. ...	-
					14.13
					17.99
					- 3.86
				Summer Freeboard =	70.84

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	[10 x 3 3/8 x 3 1/4 x .43 lbs]	[8 x 3 1/2 x 3 1/2 x .48]	[5 x 3 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. Hatches 6' 0" x 4' 0"		10 O.T. Hatches 4' 0" x 2' 4"					
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING Height above top of DECK	24"		8 x 3 1/2 x 7/16		8 x 3 1/2 x 7/16					
Thickness										
Sides	114									
Ends	114									
SHIFTING BEAMS OR WEB PLATES										
Number	1									
Section and Scantlings	12 x 3/8"									
Material	3 x 3 x 7/16									
* 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: 114 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 well } \_\_\_\_\_ sq. ft.  
on each side of vessel { 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

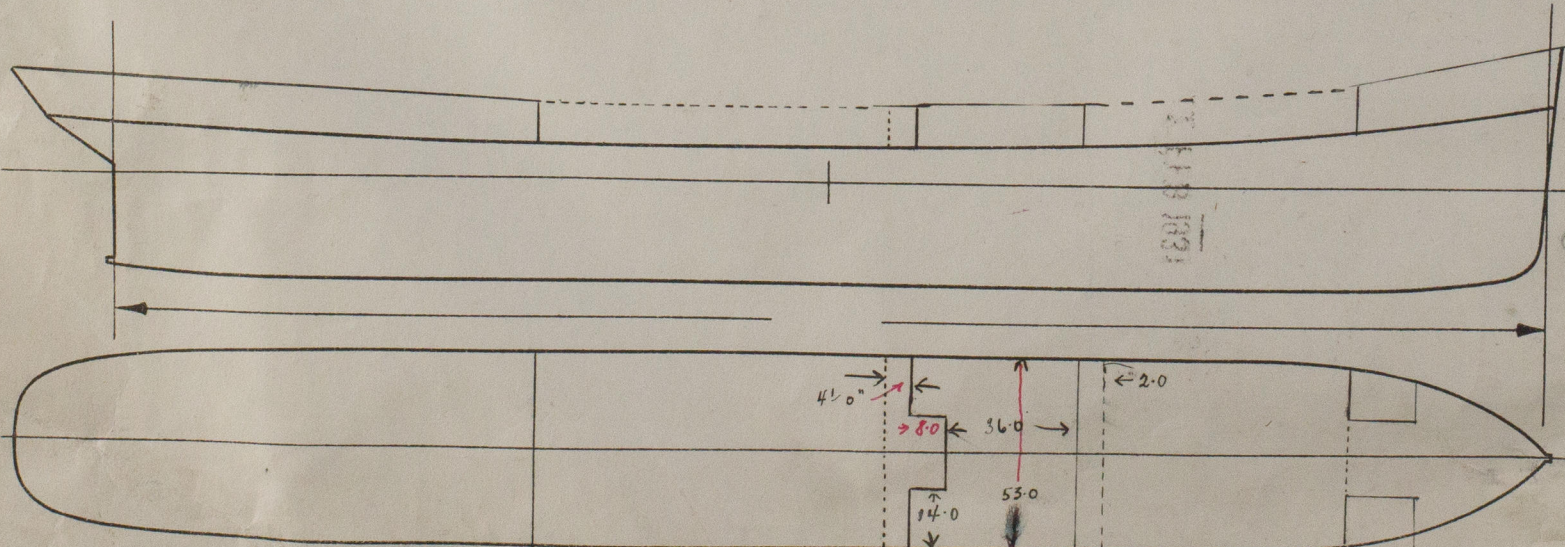
In oil tankers, what is the extent of the fore and aft gangway? Fore + Aft Poop Are the crew berthed in the forecastle? (Rule 96) No

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

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