

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.
 Port of Survey, MOBILE, ALA.
 Date of Survey, 19th April, 1940
 Name of Surveyor, W. H. STEWART

Ship's Name, s.s. EDWIN B. DEBOLIA
 Port of Registry and Nationality, San Francisco, Calif.
 Official Number, 215654
 Gross Tonnage, 3322
 Date of Build, 1917
 Particulars of Classification, #100 A 1 Carrying Petroleum in Bulk Fitted for Oil Fuel 11, 17 F.P. Above 150
 Number in Register Book, 23696
 Owner, Hillcone S.S. Co., Ltd.
 Builder, Baltimore S.S. & D. Co.
 Moulded dimensions 293' x 47' x 28' (85% = 23.8)
 Moulded displacement at a moulded draught of 85 per cent. of moulded depth 7230
 Coefficient of fineness for use with tables, .772

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth	28'	(a) When D is greater than $\frac{L}{15}$		Standard $\frac{47 \times 12}{50} =$.11.28
Stringer plate	$\frac{1}{2}"$	$(D - \frac{L}{15}) \times R = (28.04 - 19.53) \dots$	2.54	Ship	.11.75
Sheathing in wells		(b) When D is less than $\frac{L}{15}$ (if allowed)		Difference	.47
$T(\frac{L-S}{L}) =$		$(\frac{L}{15} - D) \times R =$		Restricted to	
Depth D =	28'-0.2"	If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) =$	$\frac{.47 + .932}{4} = .06$

SUPERSTRUCTURES.

	Mean Covered Length S.	Effective Length S _e (Uncovered for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	52.00	52.00			52.00
" overhang	0				
R.O.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'ele enclosed	26.00	26.00	7.59'		26.00
" overhang	0				
Trunks forward		70.50	2.00	2.00/6.13	21.92
" aft					
Tonnage opening					
Total =	78.00	118.50			99.92
Length of ship (L) =	293.0	293.0			293.0
% Covered =	26.62	50.68			34.10

Trunk 138' x 24' x 2"

Corresponding %, corrected for absence of forecastle if required } A =
 Allowance ... = 34.87

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	1.9.0	2.7.48	1.9.00	1	1.9.0
2	2.5.5	1.7.48	1.5.50	4	2.10
3	0.3.5	4.3	0.5.0	2	1.10
4	0.3.5	0.6	0.6.0	4	0.10
5	1.9.0	0.6	0.6.0	2	1.7.2
6	1.5.5	1.9.6	1.5.6	4	1.3.18
F.P. 7	1.5.0	3.7.8.6	3.7.8.6	1	7.8.6

If excess sheer forward and deficient sheer aft:-

Actual sheer aft
 Standard sheer aft = < .50
 Actual sheer forward
 Standard sheer forward = > 1.00

Length of enclosed superstructure

Forward of amidships = }
 Aft of amidships = } Tanker

Mean effective sheer ... = 2.7.7.64
 Standard sheer .05 L + 5 = 1.5.42
 Difference (Df) ... = 4.23
 Allowance = $Df \times (75 - \frac{S}{L}) = 4.23 \times .6169 =$ 2.61
 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 = 28.0
 Stringer Plate = (or Wood Deck) 0.04
 Freeboard 4.60
 Moulded draught 23.44
 Addition for keel below base line 0.16
 Extreme draught 23.60

F. W. ALLOWANCE

Displacement = 7270
 Tons per inch = 29
 $\frac{7270}{40 \times 29} = 6\frac{1}{2}$

TABULAR FREEBOARD

(corrected for flush deck if required) = 39.70
 772 + .68 = 1.452
 Corrected for Coefficient 1.36 = 1.36
 Correction for Depth ... 19.18
 " Superstructures ... 2.61
 " Sheer ... 8.75
 " Camber06
 " Thickness of deck ...
 " Scantlings, etc. ...
 21.79 8.61 + 12.98
 Summer Freeboard = 55.36

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Woods, Steel, Upper Deck:-
 Tropical Fresh Water Line (above center of Disc) 12"
 Fresh Water Line " " 6"
 Tropical Line " " 5"
 Winter Line (below " ") 5"
 Winter North Atlantic Line " " 8"

Tropical Fresh Water Freeboard 31.7
 Fresh Water " 31.7
 Tropical " 31.7
 Winter " 31.7
 Winter North Atlantic " 31.7

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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) WATER TIGHT DOORS
Has the bridge an efficient steel bulkhead at the fore end? YES WATER TIGHT DOORS
Give particulars of the means of closing the openings in this bulkhead NO BRIDGE
Has the bridge an efficient steel bulkhead at the after end? POOP OR RAISED QUARTER DECK
Give particulars of the means of closing the openings in this bulkhead YES
Has the forecastle an efficient steel bulkhead at the after end? YES WATER TIGHT DOORS
Give particulars of the means of closing the openings in this bulkhead POOP, RAISED QUARTER-DECK, OR ENCLOSED BY A STRONG STEEL DECKHOUSE
Are the engine and boiler openings covered by a bridge, poop, raised quarter-deck, or enclosed by a strong steel deckhouse? STRONG STEEL DECK HOUSE
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 3/16" PLATING 3/4" x 3/4" x 3/4" 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	3/16"			3/16"
Scantlings of stiffeners	Channels 8" x 14.3 LBS.			3/2" x 3" x 3 1/2"
Spacing of stiffeners, and if bracketed	2'-1 1/2" BRACKETED			2'-6" 16" BRACKETED
Height of sills of openings above deck	1'-6 1/2"			1'-3"

PARTICULARS OF WEATHER DECK HATCHWAYS.									
		MAIN TANKS		TANKS		ENTRANCE TO LARGE HOLD		OVER DAY CARGO	
Position and Size.		No. 1	4-0" x 3'-1"	"2-3-1-5 & 6 1/2"	-0"x 3'10" 6'10" 7'11"	29' x 29'		7'-7" x 15'-0"	
	Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING	Height above top of DECK.....	38"		26"		38"		18"	24"
	Thickness { Sides.....	7/16"		7/16"		7/16"		3/8"	4/16"
	{ Ends.....	7/16"		7/16"		7/16"		3/8"	4/16"
SHIFTING BEAMS OR WEB PLATES	Number.....					None			
	Section and Beattings.....	None		None		None			
	Material.....								
W FOLDS AND APERTURE	Number.....					None			
	Section and Beattings.....	None		None		None			
	Material.....								
HATCHES THICKNESS		Steel .50		Steel .50		Steel .50		.50	.50
Remarks.....									

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 0 feet; aft 0 feet.
Area of freeing ports required by regulations (Rules 30 and 100) forward 0 sq. ft.; aft 0 sq. ft. No BULWARK (OPEN RAILS)

No. Ft. X Ft.

Particulars of freeing ports fitted { forward sq. ft. No BULWARK FITTED (OPEN RAILS)
 { well
 { after sq. ft. No BULWARK FITTED (OPEN RAILS)
on each side of vessel { 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 BULK FORECASTLE Are the crew berthed in the forecastle? (Rule 96) YES
Is the gangway strong and efficiently braced fore and aft? YES State spacing of supports 8 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

Fee: \$60.00

Expenses (if any)

Surveyor to Lloyd's Register of Shipping.



John S. ...
Surveyor to L...

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