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Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD - STEAMERS

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

New York Office Index No. 210
 Port of Survey... NEW YORK
 Date of Survey... 29th November 1935
 Name of Surveyor... H. G. House

Ship's Name "ROBERT LUCKENBACH"	Port of Registry and Nationality NEW YORK U.S.A.	Official Number 219776	Gross Tonnage 6461	Date of Build 1919-12	Particulars of Classification +100 A1 Shelter Deck with Freeboard
Number in Register Book... 32624	Owner... Lukenbach S. S. Co., Inc.	Builder... Asano S. B. Co.	Hull No. 17		
Moulded dimensions 445 × 58.0 × 32.08 (85% = 27.27)	Moulded displacement at a moulded draught of 85 per cent. of moulded depth... 15166 tons at 27'0"				
Coefficient of fineness for use with tables... .7617					

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth	32.08	(a) When D is greater than $\frac{L}{15} = 29.67$		Standard	$\frac{58 \times 12}{50} = 13.92$
Stringer plate	1/2"	$(D - \frac{L}{15}) \times R = (32.12 - 29.67) \times 2.45$	+7.35	Ship	14.50
Sheathing in wells		(b) When D is less than $\frac{L}{15}$ (if allowed).		Difference	.58
$T(\frac{L-S}{L}) =$		$(\frac{L}{15} - D) \times R =$		Restricted to	
Depth D =	32.12	If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{100} \times (1 - \frac{S_1}{S}) =$.14 x .02 = .003 neglect

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S _e (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	16.75	16.75	8.0		16.75
" overhang	21.75	10.87			10.87
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed	401.25	401.25	8.0		401.25
" overhang	.75	.56			.56
Trunks forward	4.50	7.78			7.78
" aft					
Tonnage opening					

TOTAL = **445** / **437.21** / **437.21**
 Length of ship (L) = **445** / **445** / **445**
 % Covered... = **100** / **98.25** / **98.25**

Corresponding %, corrected for absence of forecastle if required } **A =**
 Allowance ... = **42** × **.97.85** = **41.10**
 Correction for Bridge less than 2 L if required }

SHEER.

Tween Dk. Height **8'0"**
 Standard Height **7'6"**

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	48.00	54.50	54.00	1	54.00
2	18.17	24.25	24.00	4	96.00
3	4.54	5.99	6.00	2	12.00
4	11.85	11.98	13.88	4	27.76
5	47.40	48.50	53.40	2	213.60
F.P. 7	119.00	109.00	125.00	1	125.00

If excess sheer forward and deficient sheer aft:—

Actual sheer aft / Standard sheer aft =
 Actual sheer forward / Standard sheer forward =

Length of enclosed superstructure L
 Forward of amidships =
 Aft of amidships =

Mean effective sheer ... = **29.35**
 Standard sheer .05 L + 5 = **27.25**
 Difference (Df) ... = **2.10**
 Allowance = $Df \times (\frac{S}{2L}) = 2.10 \times .25 = .52$
 If limited on account of amidship superstructure ... = **Not Limited**
 If limited on account of excess sheer (1 1/2 in. per 100 ft.) ... = **Not Limited**

DRAFTS.

Moulded Depth D = **32' 1"**
 Stringer Plate = **3/8"**
 Freeboard = **4' 8 1/2"**
 Moulded draught = **27' 5"**
 Addition for keel below base line = **2 1/4"**
 Extreme draught = **27' 7 1/4"**
 $\frac{27.4}{4} = 6.8$
7"

F. W. ALLOWANCE

Displacement = **15580**
 Tons per inch = **51.5**
15580 / **40 x 51.5** = **7.5**
7 1/2"

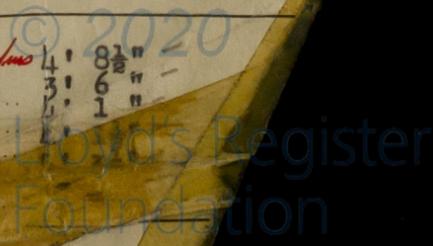
TABULAR FREEBOARD

(corrected for flush deck if required) = **85.55**
 Corrected for Coefficient $.7617 + .68 = \frac{1.4417}{1.36} = 1.06$
 Corrected for Coefficient = **90.68**
 Correction for Depth ... **7.35**
 Superstructures ... **41.10**
 Sheer ... **.52**
 Camber ...
 Thickness of deck ...
 Scantlings, etc. ...
7.35 **41.62** = **34.27**

Summer Freeboard = **56.41**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line	Wood	Steel	Deck:—
Tropical Fresh Water Line (above center of Disc)	11 1/2"	368"	Tropical Fresh Water Freeboard 10.67
Fresh Water Line	7 1/2"	190"	Fresh Water " 12.45
Tropical Line	7"	178"	Tropical " 12.52
Winter Line (below ")	7"	178"	Winter " 16.22
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? -
 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? -
 Give particulars of the means of closing the openings in this bulkhead -
 Has the bridge an efficient steel bulkhead at the after end? Yes
 Give particulars of the means of closing the openings in this bulkhead Storm Boards
 Has the forecastle an efficient steel bulkhead at the after end? -
 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? Yes
 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				
Scantlings of stiffeners				
Spacing of stiffeners, and if bracketed	✓	✓	✓	✓
Height of sills of openings above deck				

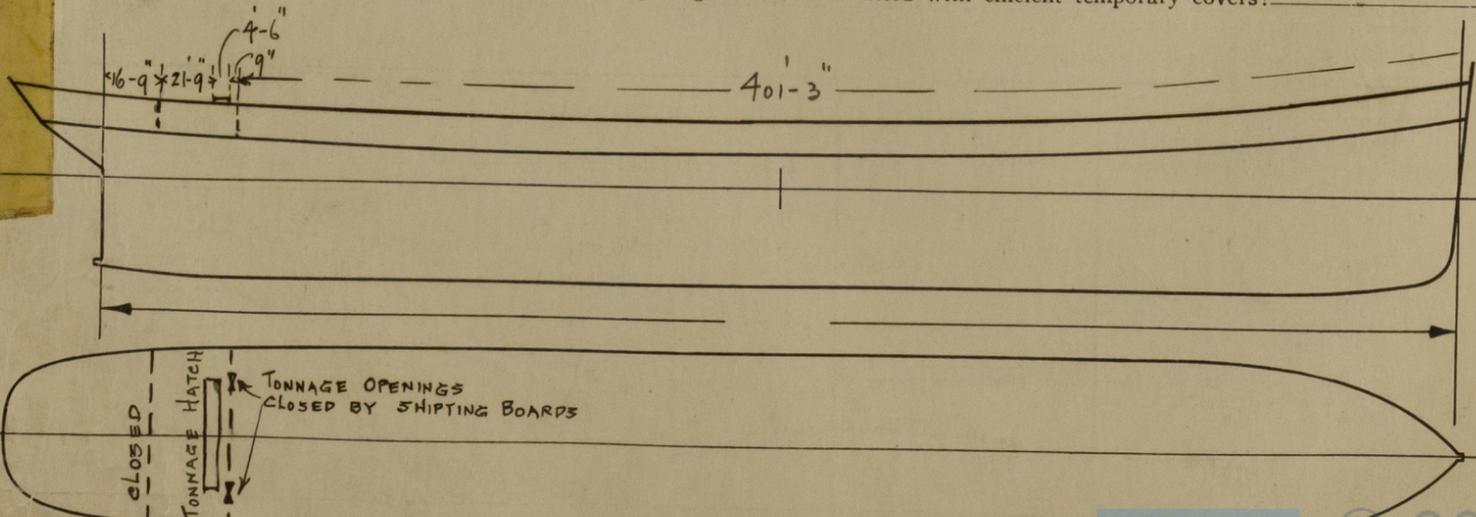
Particulars of weather deck hatchways. (In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

Position and Size.	No.1		No.2		No.3		No.4		No.5		No.6		Tonnage Hatch	
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Height above top of DECK	24'9"	20'	30'x20'	18'x20'	30'x20'	24'x20'	4'6" x 20'3"							
COAMING Thickness	Sides	24"	24"	24"	24"	24"	24"	12"						
	Ends													
SHIFTING BEAMS OR WEB PLATES.	Number	4	6	6	3	6	4							
	Section and Scantlings	16"x8/20"	16"x8/20"	16"x8/20"	16"x8/20"	16"x8/20"	16"x8/20"							
	Material	I beam steel												
* FORE AND AFTERS.	Number													
	Section and Scantlings													
	Material													
HATCHES Thickness	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"							
Remarks	good													

* 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.
 Particulars of freeing ports fitted on each side of vessel
 forward well } Open Rail = - sq. ft.
 after well } Open Rail = - 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? - Are the crew berthed in the forecastle? (Rule 96) -
 Is the gangway strong and efficiently braced fore and aft? - State spacing of supports - feet.
 In oil tankers, are the bulwarks open for at least half the length of the exposed portion of the weather deck? (Rule 100) -
 Are Rules Nos. 95, 97, 98 and 99 complied with as far as practicable? -

If the vessel has a complete superstructure deck with a tonnage opening, is the latter fitted with efficient temporary covers? 2



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.

vessels: "FORACE LUCKENBACH"

\$90.00

(if any)

(signed) H. G. HOUSE

Surveyor to Lloyd's Register of Shipping

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