

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.-STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey Rotterdam  
Date of Survey Building  
Name of Surveyor J. J. Heerwagen

Ship's Name. <u>Motor vessel</u> <b>MACUBA</b> Number in Register Book	Port of Registry and Nationality. <u>The Netherlands</u> <u>Dutch</u>	Official Number. <u>469</u>	Gross Tonnage.	Date of Build. <u>1930/1931</u>	Particulars of Classification. <u>100 A1 contemplated</u> <u>carrying petroleum in bulk</u>
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Registered dimensions from Ship's Register.	LENGTH. <u>450.87</u>	BREADTH. <u>62.08</u>	DEPTH. <u>34.12</u>	UNDER DECK TONNAGE. <u>7476.34</u>
Length on LOADLINE.	<u>450'0"</u>	Frame Depth <u>10'</u> Rule <u>2 1/2 x 3 1/4</u> <u>22 = .50</u> No. <u>7 + 33</u>	Ceiling <u>2'</u> No. <u>20</u> Sheer <u>3'</u> <u>+ 96</u>	Peak <u>1</u> dble. Tanks <u>DB in MS. + 78.13</u> Deck <u>1000</u> <u>+ 1585</u>
CORRECTED DIMENSIONS.	<u>450.0</u>	<u>61.91</u>	<u>35.28</u>	<u>7570.32</u>

Moulded Depth as measured... 34'0"  
Addition for Keel below base line for draught record... 1.52 inches. Keel plate + A stake.

NOTE.— If the depth is measured when vessel is afloat, the details of measurement should be reported.

34'-0"  
1'-3"  
35'-3"  
1'-3"  
34'-0"

### CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	<u>450</u>	Table C.	<u>8</u>
Length in Table .....	<u>408</u>	(if required.)	<u>3.36</u>
Difference .....	<u>42</u>		
Correction for 10ft., Table A. ....	<u>1.7</u>		
× Difference divided by 10 .....	<u>7.14</u>		
If 1/10ths length covered divide by 2	<u>+ 7/4</u>		<u>+ 3/4</u>

35'-3"  
3'-2"  
32'-12"  
= 32'-12"  
+ .96  
33'-0"

### CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered .....	<u>40</u>
Thickness of usual wood deck, less stringer .....	<u>3/4</u>
	<u>1.30 - 1/4</u>

### CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	<u>61.75"</u>	NOTE.— The round of beam should be reported on the full breadth of vessel at the gunwale.
Round of Beam .....	<u>15 1/2"</u>	
Normal round.....	<u>15.44</u>	
Difference .....	<u>.06</u>	
Proportion of Deck uncovered (Para. 19) .....	<u>6</u>	<u>Nil</u>

NOTE.— The round of beam should be reported on the full breadth of vessel at the gunwale.

6 Nil

Co-efficient of fineness..... 770  
Any modification necessary [Para. 4 (a) to (e)]\* }  
Co-efficient as corrected ..... 78

$\frac{729.79 \times 100}{450 \times 62.08 \times 33.08} = 781$

Sheer { Stem..... 10'0" } 180.12 ÷ 2 = 90.06 Mean 36 | 34.76  
at { Sternpost 5'0 1/8" } 96  
Sheer at 1/2 of the length from { Stem 5'6" } 98.75 ÷ 2 = 49.37 Mean  
{ Sternpost 2'8 3/4" } 89.76  
Gradual mean Sheer ..... 89.76  
Standard mean Sheer [Table, Para. 18] ..... 55.00 Correction  
Difference..... 34.76 ÷ 4 = 8.69  
§ If limited as Para. 18 (f) ..... - 8 3/4

Rise in Sheer { At front of bridge house..... 10' 1/2"  
from amidships }  
[Para. 18 (e)] { At after end of forecastle ..... 6' 6 1/4"

Fall in Sheer }  
Para. 18 (d) } ÷ 2 =  
Length uncovered ..... Correction

### ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....	<u>6'-0 1/2"</u>
Correction for Length, if required (Para. 12, 13, and 14) .....	<u>+ 3/4"</u>
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 11, 12, 13, and 14) }	<u>9'-2"</u>
Difference .....	<u>2'-10 1/4"</u>
Percentage as below.....	<u>25%</u>
	<u>8.56</u>

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }  
Allowance for Deck Erections ..... 8 1/2

	Length.	Length allowed.	Height.
Forecastle.....	<u>42'7"</u>	<u>42.58</u>	<u>7'3"</u>
Bridge House .....	<u>34'10 5/8"</u>	<u>34.88</u>	<u>7'3"</u>
† Raised Qr. Dk.....			
Poop.....	<u>102'6"</u>	<u>102.50</u>	<u>7'3"</u>
Total .....		<u>179.96 = 400</u>	
Length of Ship .....	<u>450</u>		
Corresponding percentage } (Para. 11, 12, 13, and 14) }	<u>25%</u>		

Freeboard, Table A .....	<u>9'-3 1/2"</u>
Correction for Sheer .....	<u>- 8 3/4"</u>
	<u>8'-6 3/4"</u>
Correction for Length .....	<u>+ 7 1/4"</u>
	<u>9'-2"</u>
Allowance for Deck Erections .....	<u>- 8 1/2"</u>
	<u>8'-5 1/2"</u>
Correction for Round of Beam.....	✓
Correction for fall in Sheer (if any).....	✓
Correction for Steel Deck (if required) .....	<u>- 1/4"</u>
	<u>8'-4 1/4"</u>
Additions for non-compliance with provisions of } Para. 11 (d) and (e) † }	✓
Other Corrections (if any) .....	✓
Winter Freeboard .....	<u>8'-4 1/4"</u>
Summer Freeboard ..... ( <u>6' 6 1/2"</u> ) <u>6 1/4"</u>	<u>7'-10"</u>
Indian Summer Freeboard .....	<u>7'-3 3/4"</u>
N. A. Winter Freeboard .....	✓

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or steel deck with side. 1 3/4

Winter Freeboard from deck line .....	<u>8'-6"</u>
Summer " " " " .....	<u>7'-11 3/4"</u>
Indian Summer " " " " .....	<u>7'-5 1/2"</u>
N. A. Winter " " " " .....	

7' 9/16  
6' 7/8  
2' 7/8

<b>FREEBOARD</b> recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck:—	
Fresh Water Line above centre of Disc .....	
Indian Summer Line " " " " .....	
Winter Line below " " " " .....	
Winter North Atlantic Line " " " " .....	

† In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.  
§ In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and sternpost.

† State dimensions of freeing port area on back of this form.  
‡ The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft should be reported.

FW =  $\frac{16590}{40 \times 36.12} = 4.39$

2021  
Lloyd's Register  
MARKING FORM  
22 JUN 1931  
RECEIVED

002269-002278-0063

Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? *Yes* Bridge House? *Yes* Forecastle? *Yes*

To what height do the Reverse Frames extend? *Yes*

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes*

Give particulars of the means for closing the openings in Bulkhead *Steel w. A. clows on hinges*

Is the Poop or Raised Quarter Deck connected with the Bridge House? *no* Has the Bridge House an efficient Bulkhead at the fore end? *Yes*

Give particulars of the means for closing the openings in Bulkhead *Steel w. A. clows on hinges*

What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *.44*

Give scantlings and spacing of the Stiffeners *230x90x11 mm spaced 760 mm*

Are bracket plates fitted at each end of the Stiffeners? *Yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *Yes*

Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes*

How are the openings closed? *putable plates fastened by hook bolts*

Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *Yes steel*

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Yes covered by poop*

If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *Yes*

Give thickness of plating; scantlings and spacing of Stiffeners *Yes*

What is the height of the exposed Casings? *Yes* Are suitable means provided for closing all openings in them in bad weather? *Yes*

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of the Rules? Give particulars below: *Steel oiltight hatches.*

Position.									
Size.	<i>Underdeck tonnage according to rule 1885 with 38" floors and 7 1/2" frames estimated 7219.79 Reg. Tons.</i>								
COAMING.	Height above top of DECK								
	Thickness	Sides.....							
SHIFTING BEAMS OR WEB PLATES.	Number.....	<i>Moulded displacement at draught equal to 85% of the moulded depth 18030 M<sup>3</sup></i>							
	Section and Scantlings.....								
	Material.....								
* FORE AND AFTERS.	Number.....	<i>Spaces between tank top and top longitudinal in motor space 78.13 Reg. Tons.</i>							
	Section and Scantlings.....	<i>" " top of floors in deck tank and top longitudinal also 15.85 Reg. Tons.</i>							
	Material.....								
HATCHES Thickness.....									
Remarks.....									

\* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.  
 (If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of keel to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? *Fore castle.* Strake between Main and Bridge Sheerstrakes? *Fore castle.*

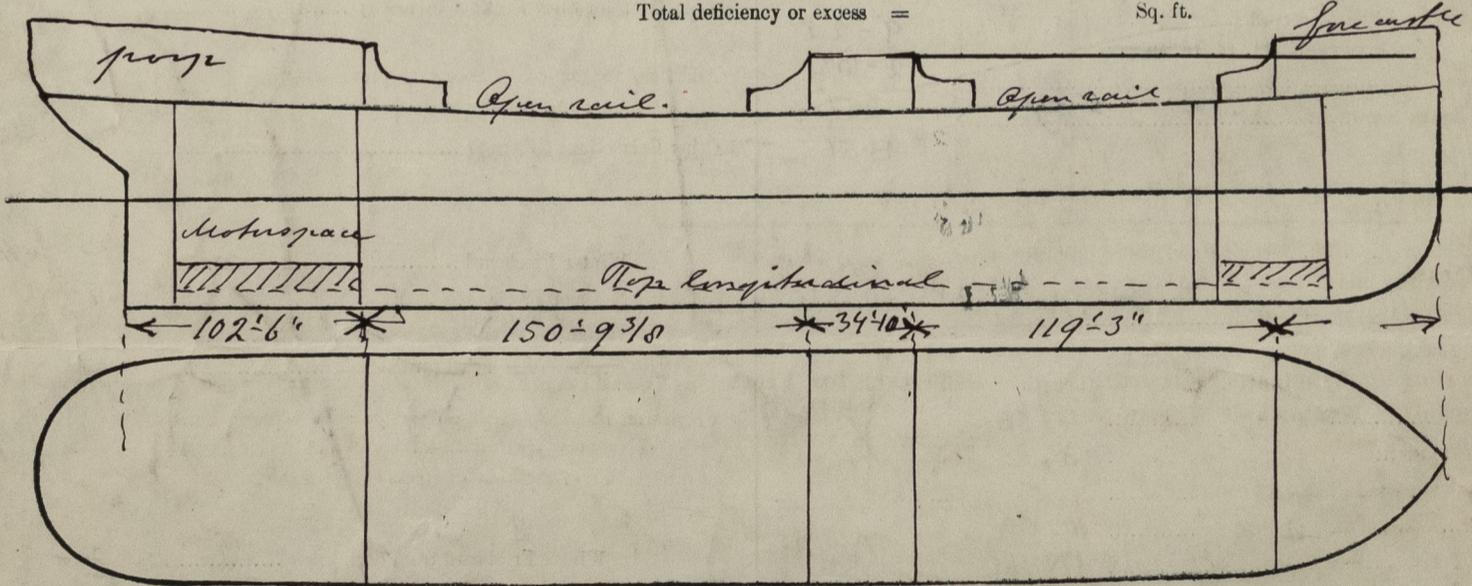
Delete the words *fore castle.* that do not apply *The Crew are, are not, berthed in the bridge house. The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.*

Length of Bulwarks in well *mostly open rail.*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *Sq. ft.*

Ft.	Tenths.	Ft.	Tenths.	No.	Freeing Ports (each side of vessel) =	Sq. ft.
x	x	x	x			
x	x	x	x			

Total deficiency or excess = *Sq. ft.*



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel *The vessel has been built in accordance with the approved plans, copies of which are being retained in your office.*

Builder's name and yard number *N.S. Mach. Fabr. & Shipyard van W. Somer Jr. Yard N: 469.*

Names of sister vessels *Yard N: 617-618-124-320-321. a freeboard has already been supplied to yard N: 617.*

Owners *Mautschaggy La Corona.*

Address *4' Greenhage.* Application form will be sent *forwards*

Fee *156.00*: Received by me *J. Herwerden*