

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index No. 30152  
(For London Office only.)

10 JAN 1933

Computation of Freeboard for <del>Steamer, Sailing Ship</del> , Tanker					Port of Survey <u>Hong Kong</u>	
having <u>Poop, Bridge &amp; Forecastle</u>					Date of Survey <u>Nov. 21, 26, 28 + Dec 1<sup>st</sup></u> <u>1932.</u>	
(Type of Superstructures.)					Name of Surveyor <u>J. H. Morrison</u>	
Ship's Name <b>"SEMIRAMIS"</b>	Nationality and Port of Registry <u>Dutch The Hague</u>	Official Number <u>None</u>	Gross Tonnage <u>5792</u>	Date of Build <u>1921-9</u>	Particulars of Classification <u>+100 A1</u> <u>"Carrying Petroleum in Bulk"</u> <u>S.S. Reg. No 2-30</u> ✓	
Moulded Dimensions: Length <u>411.75</u> Breadth <u>53.08</u> Depth <u>31.0</u>						
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>1313075</u> tons						
Coefficient of fineness for use with Tables <u>.795</u>						

<b>Depth for Freeboard (D)</b> Moulded depth ... <u>31.0</u> Stringer plate ... <u>.64</u> ... <u>.05</u> Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ <u>none</u> ✓ Depth for Freeboard (D) = <u>31.05</u>	<b>Depth correction</b> (a) Where D is greater than Table depth (D-Table depth) R = $(31.05 - 27.45) 3 = +10.80$ (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures	<b>Round of Beam correction</b> Moulded Breadth (B) <u>53.08</u> Standard Round of Beam = $\frac{B \times 12}{50} =$ <u>12.74</u> Ship's Round of Beam = <u>12.50</u> Difference <u>.24</u> Restricted to Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S}{L} \right) =$ $\frac{.24}{4} (1 - .739) = +.03$
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## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>i</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	<u>110.25</u>	<u>110.25</u>	<u>7'-6"</u>	✓	<u>110.25</u>	Standard Height of Superstructure <u>7.50</u>
" overhang ...	✓					" " R.Q.D. ✓
R.Q.D. enclosed ...	✓					Deduction for complete superstructure <u>42"</u>
" overhang ...	✓					Percentage covered $\frac{S}{L} =$ <u>48.46</u>
Bridge enclosed...	<u>26.00</u>	<u>26.00</u>	<u>7'-6"</u>	✓	<u>26.00</u>	" " $\frac{S_i}{L} =$ <u>47.39</u>
" overhang aft ...	<u>3.50</u>	<u>2.62</u>			<u>2.62</u>	" " $\frac{E}{L} =$ <u>47.39</u>
" overhang forward	<u>3.00</u>	<u>1.50</u>			<u>1.50</u>	Percentage from Table, Line A. ✓
Fore enclosed ...	<u>52.75</u>	<u>52.75</u>	<u>7'-6"</u>	✓	<u>52.75</u>	(corrected for absence of forecastle (if required))
" overhang ...	<u>4.00</u>	<u>2.00</u>			<u>2.00</u>	Percentage from Table, Line B. <u>38.39</u>
Trunk aft ...	✓					(corrected for absence of forecastle (if required))
" forward ...	✓					Interpolation for bridge less than 2L (if required) ✓
Tonnage opening aft ...	✓					Deduction = <u>42 × .3839 = -16.12</u>
" " forward	✓					
Total ...	<u>199.50</u>	<u>195.12</u>			<u>195.12</u>	

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	Mean actual sheer aft Mean standard sheer aft
A.P. ...	51.17	1	51.17	45.00	45.00	1	45.00	= Deficient.
$\frac{1}{4}$ L from A.P. ...	22.77	4	91.08	19.00	16.59	4	66.36	
$\frac{3}{8}$ L " ...	5.63	2	11.26	4.00	4.15	2	8.30	Mean actual sheer forward Mean standard sheer forward
Amidships ...	-	4	-	0	-	4	-	
$\frac{3}{8}$ L from F.P. ...	11.26	2	22.52	10.00	10.37	2	20.74	Length of enclosed superstructure L forward of amidships = " " aft of " = } to
$\frac{1}{4}$ L " ...	45.54	4	182.16	41.50	41.48	4	165.92	
F.P. ...	102.34	1	102.34	102.00	102.00	1	102.00	
Total ...			460.53				408.32	

Correction =  $\frac{\text{Difference between sums of products}}{18} = \frac{52.21}{18} = 2.90$ 

If limited on account of midship superstructure.

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 31.07 Ft.  
 Summer freeboard = 5.60  
 Moulded draught (d) = 25.47

## Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 6.37  $\frac{1}{4}$ "Addition for Winter North Atlantic Freeboard (if required) = 4.11  $\frac{1}{4}$ "

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$  742660 lbs

Tons per inch immersion at summer load water line

T = 44.93Deduction =  $\frac{\Delta}{40T}$  inches= 7.04

See letter

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient  $\frac{795+68}{1.36} = \frac{1.475}{1.36}$ 

	+	-
Depth Correction ...	<u>10.80</u>	-
Deduction for superstructures ...	-	<u>16.12</u>
Sheer correction ...	<u>1.47</u>	-
Round of Beam correction ...	<u>.03</u>	-
Correction for Thickness of Deck amidships ...	<u>.34</u>	-
Other corrections, scantlings, etc. ...	-	-
	<u>12.64</u>	<u>16.12</u>

Summer Freeboard = 67.38SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc ...	<u>13<math>\frac{1}{2}</math>"</u>
Fresh Water Line " " ...	<u>7<math>\frac{1}{2}</math>"</u>
Tropical Line " " ...	<u>6<math>\frac{1}{2}</math>"</u>
Winter Line below " " ...	<u>6<math>\frac{1}{2}</math>"</u>
Winter North Atlantic Line " " ...	<u>10<math>\frac{1}{4}</math>"</u>

Tropical Fresh Water Freeboard ...	<u>4'-6<math>\frac{1}{4}</math>"</u>
Fresh Water " " ...	<u>5'-0<math>\frac{1}{2}</math>"</u>
Tropical " " ...	<u>5'-1<math>\frac{1}{2}</math>"</u>
Winter " " ...	<u>6'-1<math>\frac{1}{2}</math>"</u>
Winter North Atlantic " " ...	<u>6'-5<math>\frac{3}{4}</math>"</u>



# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

Description of Hatchway	on Forecastle		on Freeboard Deck		On Poop		On Fiddley to Coal	
	To U. Deck	To Fore Peak	To Large Tank (28' off)	To O.F. Tank (20' 5" off)	To O.F. Tank (20' 5" off)	To O.F. Tank (20' 5" off)	To O.F. Tank (20' 5" off)	To O.F. Tank (20' 5" off)
Dimensions of Hatchway	10' x 8'	30' x 30'	6' x 4'	20' 5" x 4'	20' 5" x 4'	20' 5" x 4'	20' 5" x 4'	20' 5" x 4'
COAMINGS	Height above Deck	30"	21"	9"	9"	9"	9"	9"
	Thickness	.50"	7/20"	7/20"	7/20"	7/20"	7/20"	7/20"
	Sides	✓	✓	✓	✓	✓	✓	✓
	Stiffeners	✓	✓	✓	✓	✓	✓	✓
HATCH BEAMS	Number	✓	✓	✓	✓	✓	✓	✓
	Spacing	✓	✓	✓	✓	✓	✓	✓
	Unstayed Lengths	✓	✓	✓	✓	✓	✓	✓
	Scantling and Sketch	✓	✓	✓	✓	✓	✓	✓
FORE AND AFTERS	Number	✓	✓	✓	✓	✓	✓	✓
	Spacing	✓	✓	✓	✓	✓	✓	✓
	Unstayed Lengths	✓	✓	✓	✓	✓	✓	✓
	Scantling and Sketch	✓	✓	✓	✓	✓	✓	✓
HATCH COVERS	Material	Steel plate	Steel plate	Steel plate	Steel plate	Steel plate	Steel plate	Steel plate
	Thickness	.50"	.50"	.50"	.50"	.50"	.50"	.50"
	How fitted	Fitted with toggles	Fitted with toggles	Fitted with toggles	Fitted with toggles	Fitted with toggles	Fitted with toggles	Fitted with toggles
	Bearing Surface	✓	✓	✓	✓	✓	✓	✓
Spacing of Cleats	✓	✓	✓	✓	✓	✓	✓	✓
Number of Tarpaulins	✓	✓	✓	✓	✓	✓	✓	✓

Particulars of fiddley, funnel and ventilator coamings: — *Stokehold gratings covered by strong steel hinged covers. Fiddley + funnel ventilators in efficient condition. Engine skylight of steel strongly constructed.*

Particulars of Flush Bunker Scuttles: — *None*

Particulars of Companionways: — *Two steel companions on Poop deck leading to store rooms in Poop, 4' 6" x 2' 6" x 6' 7" high, doors of wood with 19" sill, can be operated from both sides. one companion on Poop deck enclosed by steel deck house, leading to steering gear, door of wood with 15" sill, can be operated from both sides.*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks: — *On Forecastle: 1-10 1/2" dia. coaming 36" x 7/20 to F.P. Store, 12" x 7/20 to crew's space, 10-8" (fitted with screw down covers). 2-15" dia. coaming 32" x 7/20 to Fore Hold, 24" x 7/20 to Fore Pump Room, 1-15" (fitted with screw down covers). On Bridge: 5-8" dia. coaming 12" x 7/20 to rooms, (fitted with screw down covers). On Poop: 4-15" dia. coaming 36" x 7/20 to coal bunkers, 4-9" " 36" x 7/20 to Prop. space, 4-8" " 12" x 7/20 to store rooms, (fitted with screw down covers). On Pump Room: 2-24" dia. coaming 24" x 7/20 to Pump room, (fitted with screw down covers). All ventilation constructed in accordance with the Rules + closed with wood plugs + canvas covers.*

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks: — *On Forecastle: 1-4" to F.P. Tank, 18" high, 2-4" to Fore deck tank, 18" high. On Poop: 4-3" to cross bunker, 19" high, 4-3" to D.B. tanks, 6" high. On Fore Well deck: 2-4" dia. to fore cofferdam, 25" high. On Aft Well deck: 2-4" dia. to aft cofferdam, 6 ft high supported to bulkhead. All air pipes of goose neck type + closed with plugs and canvas covers + gauge wire for oil fuel.*

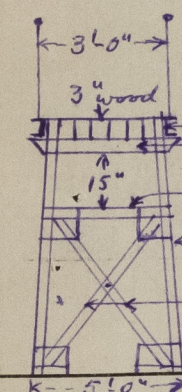
Particulars of Gangway Cargo and Coaling Ports: — *None*

Particulars of Scuppers and Sanitary Discharge Pipes: — *Scuppers + sanitary discharges are fitted with gunmetal storm valves at ship's sides + efficient traps or wood plugs at inner ends.*

Particulars of Side Scuttles: — *Side scuttles in Poop, Bridge + Forecastle spaces fitted with hinged deadlights + all of substantial construction. None below freeboard deck.*

Particulars of Guard Rails: — *Bulwarks in wells on freeboard deck 3' 6" high efficiently constructed + supported. Guards rails on Poop, bridge + forecastle 33" high, with 2 rods on forecastle + 3 rods on Poop + Bridge and stanchions spaced 4' 6".*

Particulars of Gangways, Lifelines, etc.: — *Gangway fitted from poop to bridge + from bridge to forecastle, efficiently supported, having stanchions with one rod on each side.*



Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	96.5	3' 6"	(3' 4" x 1' 8") (5' 4 3/4" x 2' 2")	2 8	93.8 #	84.5 #
Forward Well	116.75	3' 6"	(3' 4" x 1' 8") (5' 7" x 2' 2")	2 10	119.0 #	102.25 #

State position of each freeing port: ... After Well: — 12"  
(F. and A. position and height above deck edge) Forward Well: —  
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such: — *Three vertical bars in small ports. Two horizontal bars in large ports.*

Additional area where sheer is less than standard.

Particulars of Superstructures, Trunks, Casings, Deckhouses.

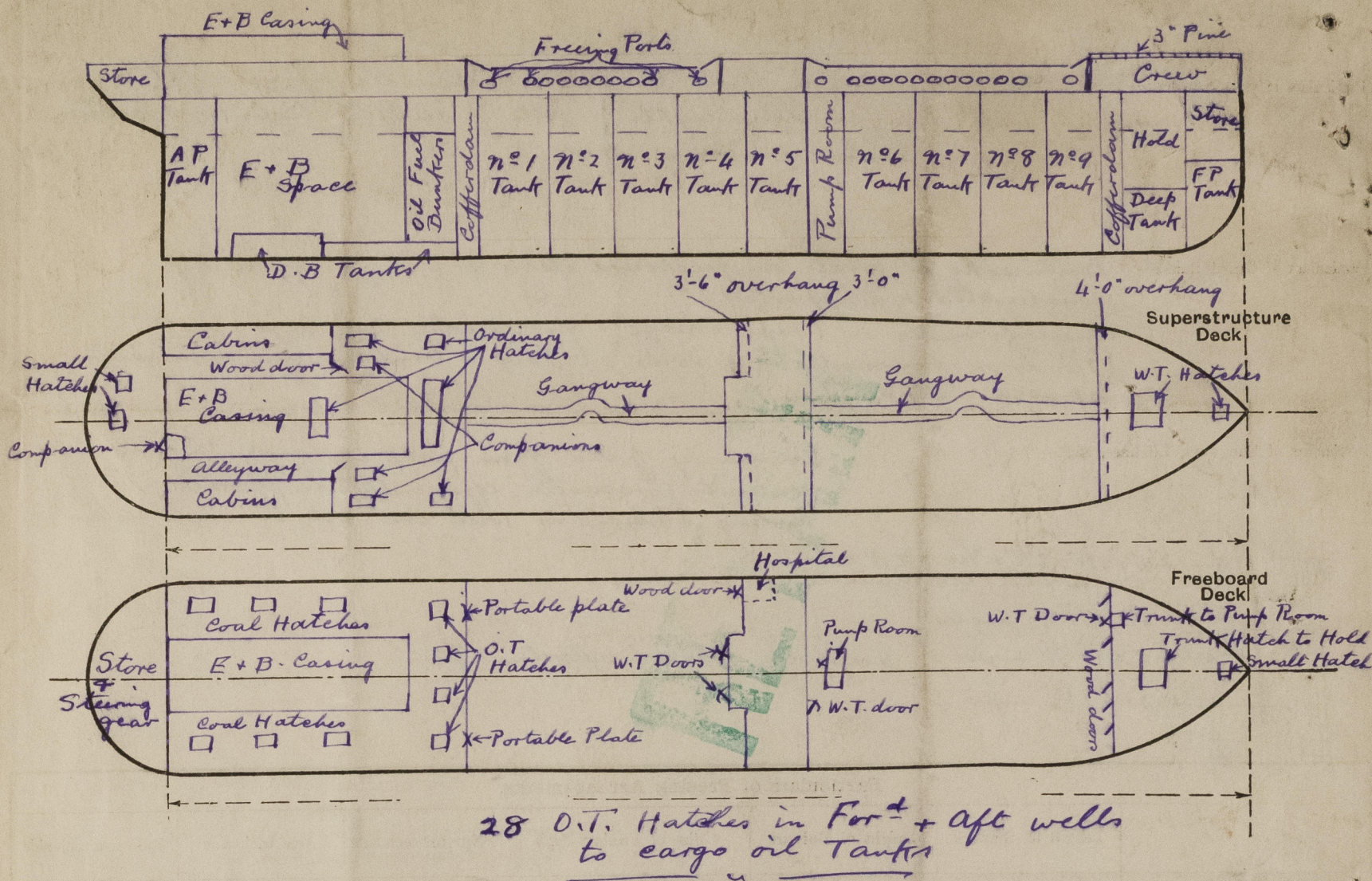
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	9/20	9/20	10 x 3 1/2 x 3 1/2 x 8/20	40"	Brackets	4' 6" x 3' 0"	24"	7' 6"
Raised Quarter Deck Bulkhead	✓	✓	✓	✓	✓	✓	✓	✓
Bridge, After Bulkhead	8/20	8/20	6 x 3 1/2 x 9/20 angles	36"	Brackets	4' 6" x 2' 5"	22"	7' 6"
Bridge, Forward Bulkhead	8/20	8/20	10 x 3 1/2 x 3 1/2 x 8/20	40"	Brackets	5' 0" x 2' 8"	16"	7' 6"
Forecastle Bulkhead	8/20	8/20	4 1/2 x 3 x 8/20 angles	32"	Brackets	5' 0" x 2' 0"	18"	7' 6"
Trunk, Aft	✓	✓	✓	✓	✓	✓	✓	✓
Trunk, Forward	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Superstructure Decks	9/20	7/20	3 1/2 x 3 x 8/20 angles	25"	Takes top + bott. angles	4' 11" x 2' 1"	18"	7' 6"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	9/20	8/20	3 1/2 x 3 x 8/20 angles	25"	Takes top + bott. angles	4' 9" x 2' 11"	18"	7' 6"
Pump Room	10/20	7/20	4 x 3 x 8/20 angles	34"	Takes top + bott. angles	5' 0" x 2' 0"	17"	7' 0"
Deckhouses on Flush Deck Ships	✓	✓	✓	✓	✓	✓	✓	✓

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	✓
Raised Quarter Deck Bulkhead	✓
Bridge, After Bulkhead	2- watertight hinged steel doors, can be operated from both sides. 1- Hinged wood door to Hospital, can be operated from both sides.
Bridge, Forward Bulkhead	1- Watertight hinged steel door, can be operated from both sides.
Forecastle Bulkhead	5- hinged wood doors, can be operated from both sides.
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	1- watertight hinged steel to pump room, can be operated from both sides.
Exposed Machinery Casings on Superstructure Decks	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	Hinged steel doors, can be operated from both sides.
Pump Room	Hinged steel doors, can be operated from both sides.
Deckhouses on Flush Deck Ships	Watertight hinged steel door, can be operated from both sides.



Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:— Oil Tanker, Longitudinal Framing, Machinery aft.

Vessel surveyed in dry dock, Condition survey only.  
Vessel found or placed in good condition.

Builder's name and yard number. *S. Western S.B. Co. San Pedro, Calif. U.S.A.*

Names of sister ships

Owners. *Nederl. Indische Tankstoomboot Maats.*

Fee *\$408.00*

Received by me



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