

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Index. No. 36096
(For London Office only.)
18 SEP 1939

Computation of Freeboard for Steamer, ~~Sailing Ship, Tug~~ *NOTES (WOOD)*
having *flush deck with horse amidships*

(Type of Superstructures.)

Ship's Name <i>LEOLA VIVIAN</i>	Nationality and Port of Registry <i>Canadian Vancouver B.C.</i>	Official Number <i>171808</i>	Gross Tonnage <i>49.49</i>	Date of Build <i>1939</i>
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Moulded Dimensions: Length *58'* Breadth *14.25* Depth *8.7*
Moulded displacement at moulded draught = 85 per cent. of moulded depth *139* tons
Coefficient of fineness for use with Tables *.7* *.496*

Port of Survey *Vancouver B.C.*
Date of Survey *Aug 8 + 10. 1939*
Name of Surveyor *A. Scott*
Particulars of Classification *LLOYDS + 9A1*

Depth for Freeboard (D) Moulded depth <i>8.7</i> Stringer plate ... <i>wood deck</i> ... <i>17</i> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <i>8.87</i>	Depth correction (a) Where D is greater than Table depth (D - Table depth) R = (b) Where D is less than Table depth (if allowed) (Table depth - D) R = If restricted by superstructures	Round of Beam correction Moulded Breadth (B) <i>14.25</i> Standard Round of Beam = $\frac{B \times 12}{50} = 3.4$ Ship's Round of Beam = <i>4.5</i> Difference <i>1.1</i> Restricted to Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed					
„ overhang aft					
„ overhang forward					
F'cle enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total					

Standard Height of Superstructure _____
„ „ R.Q.D. _____
Deduction for complete superstructure _____
Percentage covered $\frac{S}{L} =$
„ „ $\frac{S_1}{L} =$
„ „ $\frac{E}{L} =$
Percentage from Table, Line A.
(corrected for absence of forecastle (if required))
Percentage from Table, Line B.
(corrected for absence of forecastle (if required))
Interpolation for bridge less than .2L (if required)
Deduction =

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<i>5.8</i>	1			<i>14</i>		1		
$\frac{1}{4}$ L from A.P.	<i>7.03</i>	4			<i>7.2</i>		4		
$\frac{2}{4}$ L „	<i>1.7</i>	2			<i>2</i>		2		
Amidships	<i>0</i>	4			<i>0</i>		4		
$\frac{2}{4}$ L from F.P.	<i>3.47</i>	2			<i>3.5</i>		2		
$\frac{1}{4}$ L „	<i>14</i>	4			<i>10</i>		4		
F.P.	<i>31</i>	1			<i>22</i>		1		
Total									

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
„ „ aft of „ =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$
If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = _____ Ft. Summer freeboard = _____ Moulded draught (d) = _____ Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____ Addition for Winter North Atlantic Freeboard (if required) = _____	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line $T =$ Deduction = $\frac{\Delta}{40T}$ inches = _____	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient <table><tr><th></th><th>+</th><th>-</th></tr><tr><td>Depth Correction</td><td></td><td></td></tr><tr><td>Deduction for superstructures</td><td></td><td></td></tr><tr><td>Sheer correction</td><td></td><td></td></tr><tr><td>Round of Beam correction</td><td></td><td></td></tr><tr><td>Correction for Thickness of Deck amidships</td><td></td><td></td></tr><tr><td>Other corrections, scantlings, etc.</td><td></td><td></td></tr></table> Summer Freeboard = _____		+	-	Depth Correction			Deduction for superstructures			Sheer correction			Round of Beam correction			Correction for Thickness of Deck amidships			Other corrections, scantlings, etc.		
	+	-																					
Depth Correction																							
Deduction for superstructures																							
Sheer correction																							
Round of Beam correction																							
Correction for Thickness of Deck amidships																							
Other corrections, scantlings, etc.																							

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ... ..	...	Tropical Fresh Water Freeboard ... ..	...
Fresh Water Line „ „ ... ..	...	Fresh Water „ „ ... ..	...
Tropical Line „ „ ... ..	...	Tropical „ „ ... ..	...
Winter Line below „ „ ... ..	...	Winter „ „ ... ..	...
Winter North Atlantic Line „ „ ... ..	...	Winter North Atlantic „ „ ... ..	...

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	...	...	...	...	...	...	...	...	...
Dimensions of Hatchway	...	...	...	...	...	...	...	...	...
COAMINGS	Height above Deck	...	...	...	...	...	...	...	...
	Thickness	...	...	...	...	...	...	...	...
	Stiffeners	...	...	...	...	...	...	...	...
	Brackets, Stays	...	...	...	...	...	...	...	...
HATCH BEAMS	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Scantling and Sketch	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
FORE AND AFTERS	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Unsupported Lengths	...	...	...	...	...	...	...	...
	Scantling* and Sketch	...	...	...	...	...	...	...	...
HATCH COVERS	Material	...	...	...	...	...	...	...	...
	Thickness	...	...	...	...	...	...	...	...
	How fitted	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
Spacing of Cleats	...	...	...	...	...	...	...	...	...
Number of Tarpaulins	...	...	...	...	...	...	...	...	...

Particulars of fiddley, funnel and ventilator coamings:— *Funnel & Eng Room Vent Carried through House in wood casing, doubly insulated. Two 5" ports of brass, with metal instead of glass are fitted in sides of after accommodation hatch for ventilation only.*

Particulars of Flush Bunker Scuttles:— *None.*

Particulars of Companionways:— *Companionways to foreward and after accommodation are at the hatches with proper closings. Companionways to after accommodations and to Engine Room are inside house.*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:— *One 6" dia Vent to house on house top.*

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:— *20 fuel tanks 1 1/2" dia gal pipe up side of house 7 feet high. Vent for fresh water pipe is led up inside of after hatch 18" above deck.*

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

Particulars of Scuppers and Sanitary Discharge Pipes:— *Storm valves in ship's side. also scupper shut down valve.*

Particulars of Side Scuttles:— *7 dia heavy brass, heavy glass & deadlight. Windows in house 18x24 wood frames— plate glass, 3-9' above deck. do house forward end are 4-3' above deck. Height of sills?*

Particulars of Guard Rails:— *Guard rails on top of Bulwark. 18" high. Top rail 1 1/2" dia galvanized pipe. 2nd - 3/4" dia steel wire.*

Particulars of Gangways, Lifelines, etc.:— *No special provision on deck. Communication throughout vessel from Companionways in house, and doors in H.T. bulkheads.*

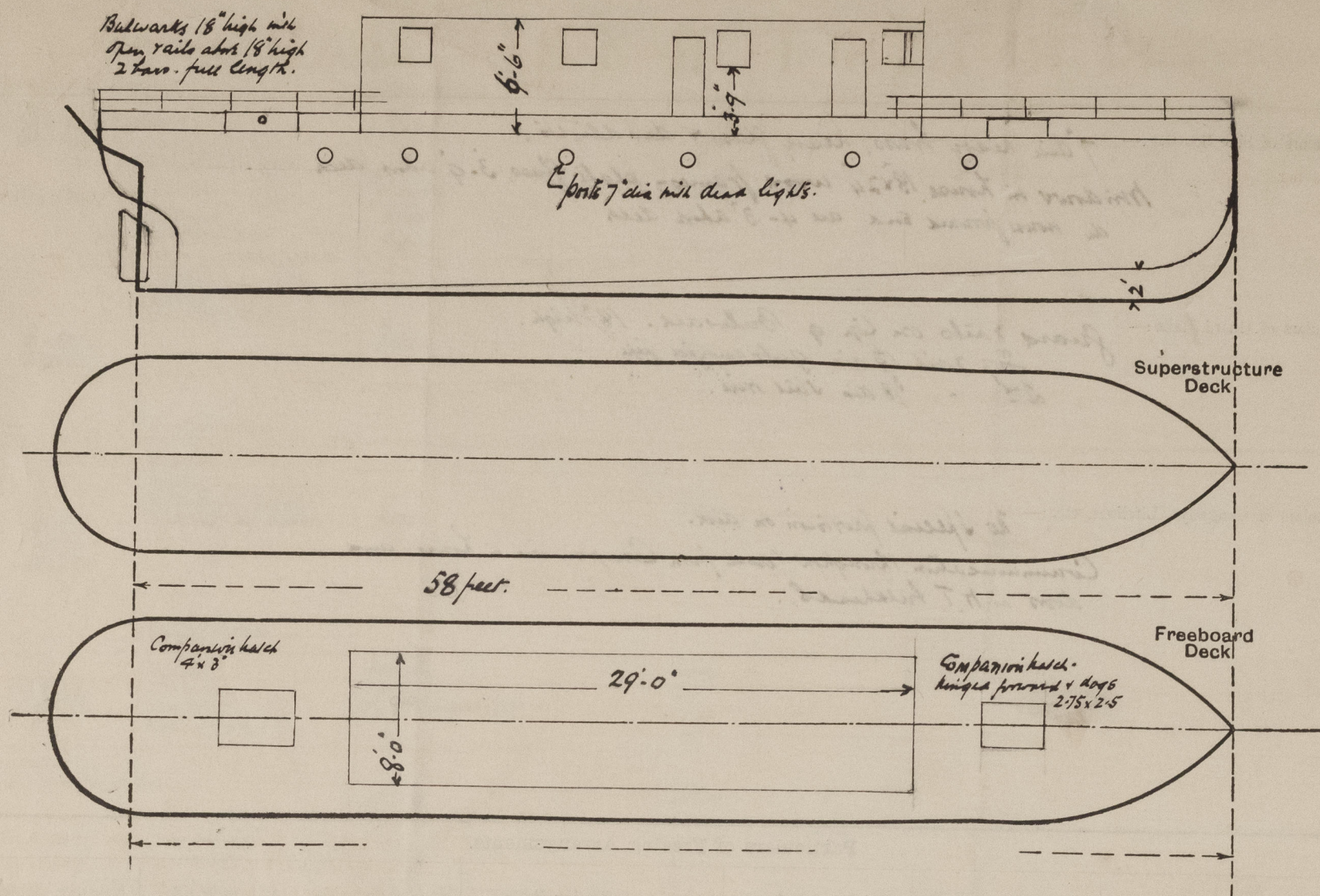
Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	Full length.	18"	10" x 1 3/4"	38	5.5'	12.5
Forward Well						

* State position of each freeing port ... After Well:— *Openings between Stanchions at deck level.*
(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:— *No shutters.*
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								
Raised Quarter Deck Bulkhead								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead								
Forecastle Bulkhead								
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks								
Exposed Machinery Casings on Superstructure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships	6" x 6"	1" outside 3/4" inside	1 1/2" x 3"	16	Through bulwark top to under deck 3/4" dia from	24" x 52"	18"	78"

Particulars of Closing Appliances (state if capable of being manipulated from both sides).								
Poop Bulkhead	...	...	...	...	...	...	...	...
Raised Quarter Deck Bulkhead	...	...	...	...	...	...	...	...
Bridge, After Bulkhead	...	...	...	...	...	...	...	...
Bridge, Forward Bulkhead	...	...	...	...	...	...	...	...
Forecastle Bulkhead	...	...	...	...	...	...	...	...
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	...	...	...	...	...	...	...	...
Exposed Machinery Casings on Superstructure Decks	...	...	...	...	...	...	...	...
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	...	...	...	...	...	...	...	...
Deckhouses on Flush Deck Ships	Doors 2" wood. manipulated from both sides. windows sliding— special shutter for weather.							

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:—

This vessel has been constructed under Special Survey of approved materials, and the workmanship is good throughout all materials. The vessel will be recommended for class + GA1 when completed.

Builder's name and yard number *Virian Yard, Napier, No. 1.*

Names of sister ships

Owners *W. Virian - Vancouver B.C.*

Fee £ *30.00.*

Received by me



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Foundation