

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

 Index No. **37672**
 (For London Office only).

13 JUL 1944

Ship's Name **SEA ROVER**
 "DORVAL PARK"
~~LAKE CANIM~~

Official Number **175389**
 Nationality and Port of Registry **LIBERIAN**
British
Montreal, P.Q.
MONROVIA

Gross Tonnage **7063 (L16)**
7162.70
 Date of Build **1944**

Port of Survey **North Vancouver, B.C.**
 Date of Survey **May, 1944.**

Surveyor's Signature **J. Caldwell**

Particulars of Classification **(Contemplated)**
***100 A1 with freeboard corresponding to a Summer Moulded draught of 26'-10".**

Moulded Dimensions: Length **417.35** Breadth **56.90'** Depth **(37.33' to Upper Deck)**
(28.58' to 2nd Deck)
 Moulded displacement at moulded draught = 85 per cent. of moulded depth **16,600** tons
 Coefficient of fineness for use with Tables **.771**

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 37.33'	(a) Where D is greater than Table depth (D—Table depth) R= (37.39—27.82) × 3 = + 28.71	Moulded Breadth (B) 56.9'
Stringer plate06'	(b) Where D is less than Table depth (if allowed) (Table depth—D) R= 9.57	Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.66
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 14.00"
Depth for Freeboard (D) = 37.39		Difference = .34
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{.34^2}{4} = -.09$

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 $\frac{S}{L} =$
 " " $\frac{S_1}{L} =$ **Nil.**
 " " $\frac{E}{L} =$
 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 = **Nil.**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate Ins.	Effective Ordinate	S	M	Product
A.P. ...	51.73	1		51.73	55.00	55.00	1		55.00
1/4L from A.P. ...	23.02	4		92.08	23.25	23.25	4		93.00
1/2L " ...	5.69	2		11.38	6.50	6.50	2		13.00
Amidships ...	-	4		-	-	-	4		-
3/4L from F.P. ...	11.38	2		22.76	11.63	11.63	2		23.26
1/4L " ...	46.04	4		184.16	46.75	46.75	4		187.00
F.P. ...	103.47	1		103.47	105.00	105.00	1		105.00
Total ...				465.58					476.26

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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{10.68}{18} \times .75 = -.45$
 If limited on account of midship superstructure. **No. Flush Deck.**

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD
Addition for Winter and Winter North Atlantic Freeboard. (Nil.)	Displacement in salt water at summer load water line $\Delta =$ 13760	Corrected for Flush Deck (if required)
Depth to Freeboard Deck = 37.39	Tons per inch immersion at summer load water line $T =$ 48.20	Correction for coefficient. $\frac{771 + 68}{1.36} = 1.457 / 1.36$
Summer freeboard = 10.56	Deduction = $\frac{\Delta}{40T}$ inches = 7 1/4"	Depth Correction ... 28.71
Moulded draught (d) = 26.83		Deduction for superstructures ... -
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.71 = 6 3/4"		Sheer correction45
Addition for Winter North Atlantic Freeboard (if required) =		Round of Beam correction09
		Correction for Thickness of Deck amidships ... -
		Other corrections, scantlings, etc. (Nil.)
		Summer Freeboard = 126.75

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

Tropical Fresh Water Line above Centre of Disc ...	14"	Tropical Fresh Water Freeboard ...	10'-6 3/4"
Fresh Water Line " " ...	7 1/4"	Fresh Water " " ...	9'-4 3/4"
Tropical Line " " ...	6 3/4"	Tropical " " ...	9'-11 1/2"
Winter Line below " " ...	6 3/4"	Winter " " ...	10'-0"
Winter North Atlantic Line " " ...		Winter North Atlantic " " ...	11'-1 1/2"

