

COMPUTATION OF FREEBOARD

Length on summer load line **247'-6"** Moulded Breadth **43'-6"** Moulded Depth **19'-6"** Depth of Keel
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth
 Tons

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} =$

Displacement and tons per inch immersion in salt water at summer load line

Moulded depth
 Deduction for Fresh Water $\frac{\Delta}{40 T} =$ inches
 Stringer Plate
 Round of Beam Correction
 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right)$
 Ships Round of Beam **12** inches
 Rise of floor (in sailers)
 Standard Round of Beam $\frac{B \times 12}{50}$
 Depth for Freeboard (D)
 Difference
 Table Depth
 Restricted to
 Depth Correction
 Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L} \right) =$
 If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)	
Poop	37'-0"						Standard Height of Superstructure
Raised Quarter Deck							" " R.Q.D.
Bridge	}	F					Percentage covered S/L =
		A					" " E/L =
Forecastle							" from Table line A, B, (corrected for absence of forecastle if required)
Trunk Aft							Percentage from Table by interpolation for Bridge less than .2L if required =
" Forward							Deduction =
Tonnage Opening Aft							Percentage from Table for Tankers (or Timber ships) =
" " Forward							Deduction =
Totals							

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.				1	
$\frac{1}{8}$ L from A.P.	<i>11</i>			4	
$\frac{1}{8}$ L from A.P.	<i>0</i>			2	
Amidships				4	
$\frac{1}{8}$ L from F.P.	<i>U</i>			2	
$\frac{1}{8}$ L " "	<i>E</i>			4	
F.P.				1	
				18	

Mean Actual sheer aft
 " Standard " " =

Mean Actual sheer forward
 " Standard " " =

Length of enclosed superstructure forward of amidships
 Length of Ship =

Length of enclosed superstructure aft of amidships
 Length of Ship =

Sheer Correction = Difference $\times \left(.75 - \frac{S}{2L} \right) =$

If limited on account of midship superstructure =

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

Effective Mean Sheer =

Standard " " $.05L + 5$ =

Difference =

TABULAR FREEBOARD corrected for flush deck if required =

Correction for co-efficient =

+	-

Depth correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for thickness of deck amidships

Other corrections, scantlings, etc.

Summer Freeboard in inches =

Additional allowance for superstructures on

Timber carrying ships =

Summer Timber Freeboard in inches =

DRAUGHTS AND SEASONAL CORRECTIONS

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet		
Summer Freeboard in feet		
Moulded Draught (d)		(d1)
Addition for Keel		
Extreme draught		
Deduction for Tropical and addition for Winter freeboard $d/4$		ins.
Addition for Winter North Atlantic (if required)		ins.
Deduction for Tropical Timber Freeboard $d/4$		ins.
Addition for Winter " " $\frac{d1}{3}$		ins.
" " N.A. Timber Freeboard (if required)		ins.

*2139
072*

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILER: S.M. "RED FERN" WITH TIMBER DECK CARGO
WITHOUT

Nationality CANADIAN. Builders' Name and No. of Ship CANADIAN VICKERS LTD.
MONTREAL, PQ.

Port of Registry MONTREAL Owners NORTH AMERICAN TRANSPORTS. LTD.

Official Number 154910 Port and Date of survey PORTSMOUTH. ONT.

Gross Tonnage 1856 Name of Surveyor Alex. P. Lewis

Date of Build 1930. Names of Sister Ships

Particulars of Classification B.S. (GULF OF ST. LAWRENCE AND HALIFAX SERVICE)

Type of Superstructures POOP.

Trade of Ship GT. LAKES & GULF OF ST. LAWRENCE.

Service Endorsement if any GT LAKES, GULF OF ST. LAWRENCE & HALIFAX SERVICE.

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)

TROPICAL FRESH WATER LINE above centre of disc		Corresponding Freeboard
FRESH WATER LINE	" " " " <u>3 1/2</u> "	" " <u>5' 4 1/2"</u>
TROPICAL LINE	" " " " <u>3 1/2</u> "	" " <u>5' 4 1/2"</u>
WINTER LINE	below " " <u>3 1/2</u> "	" " <u>5' 11 1/2"</u>
WINTER NORTH ATLANTIC LINE	" " " "	" "

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S.		Corresponding Freeboard
FRESH WATER	" " " "	" "
TROPICAL	" " " "	" "
WINTER	" " below "	" "
WINTER NORTH ATLANTIC	" " " "	" "

Number of years recommended for load line certificate

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

[INTD] E.R.N. for Chief Surveyor

Passed at a meeting of the Canadian Committee of the British Corporation Register of Shipping and Aircraft
on the 23RD MARCH 1949.

[Sgd.] E. RUSSELL Macmillan Secretary
Canadian Committee

Reported at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft
on the

