

SHIPPING AND AIRCRAFT

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In accordance with authorization by the Minister of Transport
the expiry date on this provisional Load Line Certificate is extended
until September 15th, 1949.

Lloyd's Register
Foundation

Tonnage

~~4014.10.~~

of Build

1902.

Port and Date of survey

TORONTO.

Nov

Name of Surveyor

004374-004381-0149 1/3

41232

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

SHIP: *S/V* PRINDOC" EX. "W.D. CALVERLEY, JR." ~~WITH~~ WITHOUT TIMBER DECK CARGO

BRITISH. Builders' Name and No. of Ship AMERICAN S. B. Co.,
 T WILLIAM, ONT. LORAIN, OHIO. N^o 318.
 73185. Owners PATERSON STEAMSHIPS LTD.
 4074-76.

built 1902. Port and Date of survey TORONTO. NOV^R, 1947.

Name of Surveyor THOS. L. MILLAR.

Particulars of Classification *BS. (GREAT LAKES SERVICE)* Names of Sister Ships -

Type of Superstructures FORECASTLE ONLY.

Trade of Ship BULK CARRIER.

Service Endorsement if any (GREAT LAKES & RIVER ST. LAWRENCE SERVICE).

This ship, being over 250' long, can navigate the upper end of the St Lawrence River only so far down as Prescott. "Consolidated Service" should be shown as "Great Lakes Service" - same as other Upper Lakers & etc.

SUMMER FREEBOARD recommended amidships from centre of ^{DIAMOND} disc to top of deck line, (..... wood..... ^{84"} steel)		Corresponding Freeboard
TROPICAL FRESH WATER LINE above centre of disc	-	7'- 5 1/4"
FRESH WATER LINE " " "	-	-
TROPICAL LINE INTERMEDIATE BELOW DIAMOND	5 1/4"	7'- 10 1/2"
WINTER LINE below " "	10 1/4"	8'- 3 1/2"
WINTER NORTH ATLANTIC LINE " " "	-	-

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line		Corresponding Freeboard
TROPICAL FRESH WATER Timber line above L.S.		
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

PASSED AT MEETING OF THE CANADIAN COMMITTEE.
 ON THE 7th OCTOBER. 1948.

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft
 on the 3rd November 1948

INTO J. E. R. M. Chief Surveyor
 (S.A.D.) E. R. MACMILLAN. CANADIAN COMMITTEE. Sec.



Lloyd's Register
 Foundation
 (Secretary)

Refer A.R. Computation attached.

COMPUTATION OF FREEBOARD

Length on summer load line **387' 8"** Moulded Breadth **50'** Moulded Depth **28' 1"** Depth of Keel **13/4'**

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth Tons

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = 829$

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

Moulded depth **28.08** Deduction for Fresh Water $\frac{\Delta}{40T} =$ inches

Stringer Plate **0.7** 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 $\frac{B \times 12}{50} = 12$

Depth for Freeboard (D) **28.15** Difference **0**

Table Depth $\frac{L}{15}$ **25.84** Restricted to

Depth Correction $\frac{L}{130} \times$ **2.31** Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) =$ -

If restricted by superstructures **6.89 on**

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle	48'	NIL.	4FT	48.0	$\frac{4}{7.38}$	26.02
Trunk Aft						
„ Forward						
Tonnage Opening Aft						
„ „ Forward						
Totals				48.0		26.02

Standard Height of Superstructure **7.38**
 „ „ R.Q.D. -
 Percentage covered S/L = **12.4%**
 „ „ E/L = **6.7%**
 „ from Table line A, B, (corrected for absence of forecastle if required) **3.35%**
 Percentage from Table by interpolation for Bridge less than 2L if required = -
 Deduction = $41.18 \times 0.0335 = 1.38$
 Percentage from Table for Tankers (or Timber ships) = -
 Deduction = -

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	30.5			1	30.5
1/3 L from A.P.	10.5			4	42.0
1/3 L from A.P.	0			2	-
Amidships	0			4	-
1/3 L from F.P.	7.0			2	14.0
1/3 L „ „	27.0			4	108.0
F.P.	59.0			1	59.0
				18	253.5

Mean Actual sheer aft = *less than 1*
 „ 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 $\times \left(75 - \frac{S}{2L}\right) = 10.3 \times 6.88 = 70.9$ on
 If limited on account of midship superstructure = -
 „ to maximum allowance of 1 1/2 ins. per 100 ft. = -

Effective Mean Sheer = **14.083**
 Standard „ „ .05L+5 = **24.383**
 Difference **10.3**

TABULAR FREEBOARD corrected for flush deck if required = **62.72**

Correction for co-efficient = $\frac{1.509}{1.36} = 69.59$ DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailer, Tanker, Steamer	Timber
Depth correction	6.89	-		
Deduction for superstructures	-	1.38	Depth to Freeboard Deck in feet	28.15
Sheer correction	7.09	-	Summer Freeboard in feet	7.44
Round of Beam correction	-	-	Moulded Draught (d)	20.71
Correction for thickness of deck amidships	-	-	Addition for Keel	.15
Other corrections, scantlings, etc.	7.00	-	Extreme draught	20.86'
HATCHES & BAY DECKHOUSE	20.98	1.18	Deduction for Tropical and addition for Winter freeboard $d/4 = 5.18$ ins.	20' 8 1/8" (d1)
Summer Freeboard in Inches	7' 5 1/4" =	89.19	Addition for Winter North Atlantic (if required) $\frac{d}{2}$	10.36 ins.
Additional allowance for superstructures on Timber carrying ships $I + 5/8 \times 7' 10 1/2 =$			Deduction for Tropical Timber Freeboard $\frac{d}{4}$	ins.
Summer Timber Freeboard in inches $W + 10 1/4 = 8' 3 1/2$			Addition for Winter „ „ $\frac{d}{3}$	ins.
			„ „ N.A. Timber Freeboard (if required)	ins.