

SHIPPING AND AIRCRAFT

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

Tonnage

of Build

4014.10.

1902.

Port and Date of survey

TORONTO.

Nov

Name of Surveyor

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

ER: PRINDOC EX. "W.D. CALVERLEY, JR." WITHOUT TIMBER DECK CARGO

BRITISH.

Builders' Name and No. of Ship AMERICAN S. B. Co.,

T. WILLIAM, ONT.

LORAIN, OHIO. N° 318.

173185.

Owners PATERSON STEAMSHIPS LTD.

4074-76.

build

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. E.L.M.

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	"	"	"	8' 3 1/2"
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

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



INTD. J. E. R. Chief Surveyor
SAD. F. R. Macmillan. CANADIAN COMMITTEE.

Secretary
Foundation

0149 2/3

Refer A.R. Computation attached.

COMPUTATION OF FREEBOARD

Length on summer load line **387' 4 7/8"** Moulded Breadth **50'** Moulded Depth **28' 1"** Depth of Keel **13 1/4'**

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 $\frac{\Delta}{40 T} =$ 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)

Difference **0**

Table Depth

Restricted to

Depth Correction

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	4/38	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 = $41.18 \times .0335 = 1.38$

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**

Mean Actual sheer forward = **1**

Length of enclosed superstructure forward of amidships =

Length of enclosed superstructure aft of amidships =

Sheer Correction = Difference $\times \left(75 - \frac{S}{2L}\right) = 10.3 \times .688$

Effective Mean Sheer = **14.083**

Standard „ „ .05L + 5 = **24.383**

If limited on account of midship superstructure =

Difference

10.3

„ to maximum allowance of 1 1/2 ins. per 100 ft. =

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

Correction for co-efficient = **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	20' 8 5/8" (d1)
Correction for thickness of deck amidships	-	-	Addition for Keel .15	
Other corrections, scantlings, etc.	7.00	-	Extreme draught 20.86'	20' 10 3/8"
HATCHES & BATER DECKHOUSE	20.98	1.18	+19.60	
Summer Freeboard in Inches	7' 5 1/4"	=	89.19	
Additional allowance for superstructures on				
Timber carrying ships I + 5 1/4' 7' 10 1/2"	=			
Summer Timber Freeboard in inches	W + 10 1/4' 8' 3 1/2"	=		

Deduction for Tropical and addition for Winter freeboard d/4 = **5.18 ins.**

Addition for Winter North Atlantic (if required) $\frac{d}{2} = 10.36$ ins.

Deduction for Tropical Timber Freeboard $\frac{d}{4} =$ ins.

Addition for Winter „ „ $\frac{d}{3} =$ ins.

„ „ N.A. Timber Freeboard (if required) ins.