25 APR 1944

Rpt. C.11 (Comp.)

Fort Columbia 37352. et.

Lloyd's Register of Shipping.

Index. No. 37555.
(For London Office only).

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR ~~STEAMER, SAILING SHIP,~~ TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
Jorgen ex S.S. "WILLOWDALE PARK"	175369	British Montreal, PQ	7243.01	

Port of Survey: Vancouver, B. C.

Date of Survey: March, 1944

Surveyor's Signature: K. Berry.

Moulded Dimensions: Length ~~416.5'~~ 417.35' to centre of rudder stock Breadth 56.9' 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

Particulars of Classification: Contemplated ✠100 A1 With freeboard "Carrying homogeneous cargo of Petroleum in Bulk"

Depth for Freeboard (D).

Moulded depth ... ... 37.33'

Stringer plate ... ... .08'

Sheathing on exposed deck $T\left(\frac{L-S}{L}\right)$ =

Depth for Freeboard (D) = 37·41

Depth correction.

(a) Where D is greater than Table depth (D—Table depth) R= (37·41 − 27·82)3 = + 28·77 (9·59)

(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) 56.9'

Standard Round of Beam $= \frac{B \times 12}{50}$ = 13·66

Ship's Round of Beam = 14.00"

Difference ·34

Restricted to —

Correction $= \frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right)$ = ·34/4 = − ·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					

FLUSH DECK

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

Percentage covered $\frac{S}{L}$ =, " " $\frac{S_1}{L}$ =, " " $\frac{E}{L}$ = } Nil.

Percentage form 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
⅙L from A.P. ...	23·02	4	92·08	23.25	23·25	4	93·00
⅚L " ...	5·69	2	11·38	6.50	6·50	2	13·00
Amidships ...	—	4	—	--	—	4	—
⅚L from F.P. ...	11·38	2	22·76	11.63	11·63	2	23·26
⅙L " ...	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 = } Excess.

Length of enclosed superstructure / L forward of amidships = , " " aft of " = } Nil.

Correction $= \frac{\text{Difference between sums of products}}{18}\left(\cdot 75 - \frac{S}{2L}\right)$ = 10·68/18 × ·75 = − ·45

If limited on account of midship superstructure. No. Flush Deck.

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

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

		Ft.
Depth to Freeboard Deck	=	37·41
Summer freeboard	=	10·58
Moulded draught (d)	=	26·83

Deduction for Tropical freeboard and addition for Winter freeboard $= \frac{d}{4}$ inches = 6·71 = 6¾"

Addition for Winter North Atlantic Freeboard (if required) = ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line

△ = 13760

Tons per inch immersion at summer load water line

T = 48·20

Deduction $= \frac{\triangle}{40T}$ inches = 7¼"

TABULAR FREEBOARD corrected for Flush Deck (~~if required~~)

76·95 + 6·26 = 83·21

Correction for coefficient. ·771 + ·68 / 1·36 = 1·457/1·36 = 88·78

	+	−	
Depth Correction	28·77	−	
Deduction for superstructures	−	−	
Sheer correction	−	·45	
Round of Beam correction	−	·09	
Correction for Thickness of Deck amidships ...	−	−	
Other corrections, scantlings, ~~etc.~~ Deck erections to a summer moulded draught of 26'-10".	10·00	−	
	38·87	·55	+ 38·22

Summer Freeboard = 127·00 117·75

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:— 3216 10'-7" 9'-9¾"

Tropical Fresh Water Line above Centre of Disc		355 mm ... 14"	Tropical Fresh Water Freeboard	2871	... 9'-5"
Fresh Water Line	"	" 184 ... 7¼"	Fresh Water "	3041	... 9'-11¾"
Tropical Line	"	" 171 ... 6¾"	Tropical "	3055	... 10'-0¼"
Winter Line	below	" 171 ... 6¾"	Winter "	3397	... 11'-1¾"
~~Winter North Atlantic Line~~	"	"	~~Winter North Atlantic~~ "	...	...

28 APR 1944

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A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship "Carrying homogeneous cargo of Petroleum in Bulk"

Names of sister ships "MOUNT BRUCE PARK"

Builder's name and yard number West Coast Shipbuilders Ltd., Hull No. 136

Owners Minister of Munitions & Supply of Canada

Fee £ $100.00 PR