

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILER: *65* "FORT WAYNE" WITH
WITHOUT TIMBER DECK CARGO

Nationality *BRITISH* Builders' Name and No. of Ship *UNITED SHIPYARDS LTD MONTREAL N° 45.*

Port of Registry *LONDON* Owners *DOMINION OF CANADA ON CHARTER TO M.O.W.T.*

Official Number *180699* (M&S) *HALL LINE LTD.*

Gross Tonnage *7375* Port and Date of survey *MONTREAL DURING CONSTRUCTION.*

Date of Build *1 SEPT. 1945* Name of Surveyor *ALEX ROWLIN.*

Particulars of Classification *B.S.* (WITH FREEBOARD)* Names of Sister Ships *FORT ROSALIE - FORT SANDOWSKY.*

Type of Superstructures *FLUSH DECK.*

Trade of Ship

Service Endorsement if any

Annexes

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 " " "	<i>7"</i>	" "	<i>11' 11"</i>
TROPICAL LINE " " "	-	" "	-
WINTER LINE below " "	-	" "	-
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

DATE OF ISSUE *27-9-45*

DATE OF EXPIRY *31-8-50*

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

[Signature]
Chief Surveyor

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

on the *3rd October 1945*

[Signature]
Secretary

002418-002426-0143

Give full particulars of the following:—

Fiddley, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casing tops and their means of closing (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

E.R. & B.R. top 3'-0" above boat deck. Fiddley gratings & E.R. skylight of steel with hinged steel covers fitted to openings and permanently secured.

Funnel secured direct to casing top.

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

Steel comp^{to} to crew's quarters aft - 24" coaming - 2 solid wood doors. O.B.S.

" " to No 2 & 4 holds - " - W.T. steel doors.

Entrances to crew's quarters in deck house aft - 24" coaming - 2 solid wood doors. O.B.S.

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks to spaces below freeboard decks and fully enclosed superstructures enclosed by Class 1 appliances (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

Upper deck coamings 36" min. welded to deck. Wood plugs and canvas covers supplied.

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

Minimum heights 36" above upper deck.

Closing arrangements (a) Wood plugs secured by chain to air pipes where water ballast or F.W. carried. (b) Special Ball float valve and gauge fitted to D.B. O.F. tanks. (c) Gauge to settling tanks



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COMPUTATION OF FREEBOARD

Length on summer load line 416' Moulded Breadth 56' 10 1/2" Moulded Depth 37' 4" Depth of Keel 3/4" Tons
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 16562
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = 772$
 Displacement and tons per inch immersion in salt water at summer load line 12650 @ 46.5 T.P.I.
 Moulded depth 37.333 Deduction for Fresh Water $\frac{\Delta}{40 T} =$ inches
 Stringer Plate 3/4" .063 Round of Beam Correction
 Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$ - Ships Round of Beam 14.00 inches
 Rise of floor (in sailers) - Standard Round of Beam $\frac{B \times 12}{50} = 13.65$
 Depth for Freeboard (D) 37.336 Difference .35
 Table Depth 4/15 27.733 Restricted to
 Depth Correction 3 9.663 Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) = .0875 \times 1 = .0875$
 If restricted by superstructures 28.989 ON = .09 OFF

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle						
Trunk Aft						
" Forward						
Tonnage Opening Aft						
" Forward						
Totals						

Standard Height of Superstructure
 " " R.Q.D.
 Percentage covered S/L =
 " " E/L =
 " from Table line A corrected for absence of forecastle (if required) -
 Percentage from Table by interpolation for Bridge less than .2L if required = -
 Deduction = -
 Percentage from Table for Tankers (or Timber ships) =
 Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product	Mean Actual sheer aft	Mean Actual sheer forward
A.P.	54.5	51.60	54.5	1	54.50		
1/2 L from A.P.	23.5	22.96	23.5	4	94.00		
1/2 L from A.P.	5.45	5.68	5.75	2	11.50		
Amidships	0	-	-	4	-		
1/2 L from F.P.	11.5	11.36	11.50	2	23.00		
1/2 L " "	44.0	45.92	47.00	4	188.00		
F.P.	105.5	103.20	105.5	1	105.50		
				18	476.50		
Effective Mean Sheer					26.472		
Standard " "					25.800		
Difference					.672		

Sheer Correction = Difference $\times \left(75 - \frac{S}{2L}\right) = .672 \times .75 = .504$ OFF
 If limited on account of midship superstructure =
 to maximum allowance of 1 1/2 ins. per 100 ft. =

TABULAR FREEBOARD corrected for flush deck if required = 82.76 (76.52 + 6.24)
 Correction for co-efficient = $\frac{1452}{136} = 88.36$ DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailor, Tanker, Steamer	Timber
Depth correction	28.99	-		
Deduction for superstructures	-	-		
Sheer correction	-	.50		
Round of Beam correction	-	.09		
Correction for thickness of deck amidships	-	-		
Other corrections, scantlings, etc.	33.24	-		
ALL SEASONS Summer Freeboard in inches	62.23	.59	61.64	
Additional allowance for superstructures on Timber carrying ships	12' 6"		150.0	
Summer Timber Freeboard in inches				

Depth to Freeboard Deck in feet 37.336
 ALL SEASONS Summer Freeboard in feet 12.500
 Moulded Draught (d) 24.896 (d1)
 Addition for Keel 3/4" .063
 Extreme draught 24' 11 1/2" 24.959
 Deduction for Tropical and addition for Winter freeboard d/4 = - ins.
 Addition for Winter North Atlantic (if required) = - ins.
 Deduction for Tropical Timber Freeboard $\frac{d1}{4}$ = - ins.
 Addition for Winter " " $\frac{d1}{3}$ = - ins.
 " " N.A. Timber Freeboard (if required) = - ins.

Form LL. 4.D.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

CONDITIONS OF ASSIGNMENT

SHIPS NAME **ANDORRA** **EX** **FORT WAYNE** OFFICIAL NUMBER
 Nationality and Port of Registry **BRITISH**

PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead								
Trunk, Aft								
" Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks								
Exposed Machinery Casings on superstructure decks								
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances								
Deckhouses on flush deck ships	5/16	5/16	5.3 x 3.1 5/16	36	33	3x3	18" 24"	7'-6"

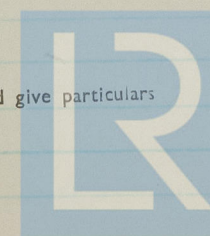
PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead
 R.Q.D. "
 Bridge Aft Bulkhead
 " Forward "
 Forecastle Bulkhead
 Exposed Machinery Casings on Freeboard or R.Q. decks
 Exposed Machinery Casings on superstructure decks
 Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances
 Deck houses on Flush Deck ships

Hinged wood doors. 2" thick. O.B.S.

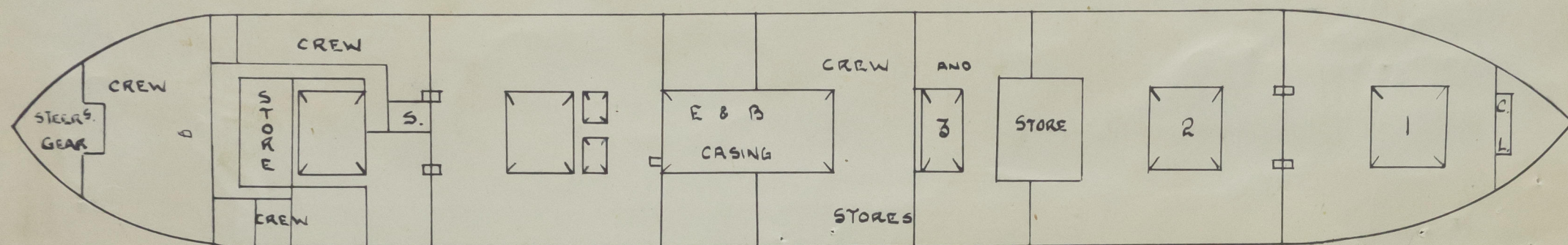
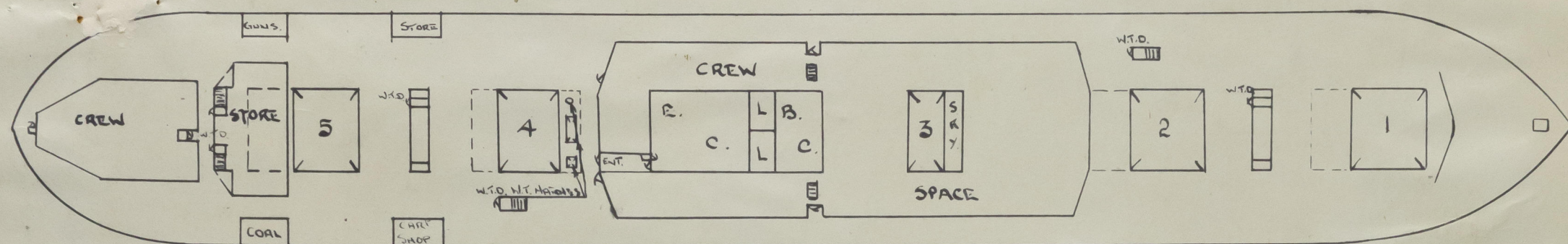
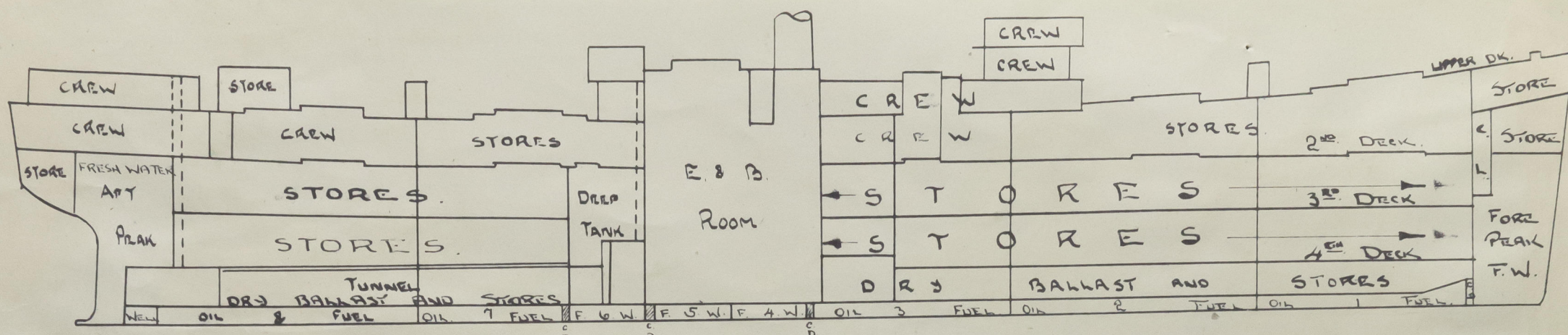
PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well					
Forward Well					
State fore and aft position and height above deck to bottom of port, for each port					
State whether freeing ports are fitted with shutters, bars or rails, and give particulars					
Give particulars of freeing port area, etc., on superstructure decks					



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PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	1	2	3	4	5	Store Hatch Ford.	Store Hatch. Aft.
Dimensions of Hatchway	22'-6" x 20'	17'-6" x 20"	10'-0" x 20'	23'-4" x 20'	17'-6" x 20'		
COAMINGS	Height above deck { steel { 30" wood {					30"	30"
	Thickness { sides { 7/16" ends {					3/8"	3/8"
	Stiffeners B.A.	7 x 3 1/2 x 3/8	As No. 1.				
HATCH BEAMS	Brackets or Stays	3 1/2 x 3 1/2 x 7/16					
	Number	3	2	1	3		
	Spacing	5'-7 1/2"	5'-10"	5'-0"	5'-10"		
	Scantling and Sketch	18 1/2 x 1 1/32					
FORE AND AFTERS	Bearing Surface and thickness of carriers or sockets	3 1/2	As No. 1.				
	Number						
	Spacing						
HATCH COVERS	Unsupported lengths						
	Scantling and Sketch						
	Bearing Surface and thickness of carriers or sockets						
HATCH COVERS	Material	SPRUCE				Fitted With	
	Thickness	3				HINGED STEEL	
	How Fitted	F.A.				W.T. COVER.	
	Bearing Surface	3					
	Spacing of Cleats	24					
HATCH COVERS	Number of Tarpaulins	2					

Are tarpaulins in good condition and in accordance with rule requirements?

YES.

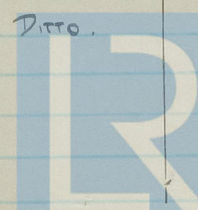
Are wood fore and afters steel shod at all bearing surfaces?

Are lashings provided in accordance with rule requirements?

LOCKING BARS FITTED.

Are battens and wedges efficient and in good condition?

YES.



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Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

Port.	7 off	2"	Brass	storm	valves.
	8 "	4"	"	"	"
	4 "	5"	"	"	"
Starb.	5 "	2"	"	"	"
	2 "	3"	"	"	"
	3 "	4"	"	"	"
	1 "	5"	"	"	"

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

10" + 16" Brass framed side scuttles having C.I. hinged deadlights fitted.

Vertical distance of sill of lowest side scuttle below top of freeboard deck at side amidships 36"

Guard Rails on freeboard and superstructure decks (state type and where fitted)

Bulwark amidships and forward. Guard rails, 3 in No. elsewhere.

Gangways and Lifelines

Lifelines to crew accommodation aft.

Gangway, Cargo and Coaling Ports in sides of ship

None.

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructure and Machinery Casings comply with rules?

Is provision made for protection of steering gear?

Is emergency steering gear provided?

Are efficient sockets and eyes for lashings provided and properly spaced?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Particulars of any Special Features in the construction of the Ship

Endorsement at first survey and at surveys for Renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown in the form and are in good condition



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