

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

S.M. "LOMA NOVIA"
 STEAMER, TANKER, SAILED: ~~STEAMER~~ WITHOUT TIMBER DECK CARGO
 Nationality BRITISH CHINESE Builders' Name and No. of Ship BARNES DULUTH S.B. CORP
 Port of Registry LONDON SHANGHAI HULL N^o 12.
 Official Number 169663 XUN1. Owners M.O.W.T.
 Gross Tonnage 1120 (MGRS) MESSRS C ROWBOTHAM & SONS
 Date of Build 9/1943 Port and Date of survey CARDIFF DEC 1943.
 Name of Surveyor H.E. WOODWARD.
 Particulars of Classification AMERICAN BUREAU Names of Sister Ships TARENTHUM, MANNINGTON, TITWILLIC UK
+ A.I.E. OIL CARRIER
 Type of Superstructures POOP AND FORECASTLE.
 Trade of Ship
 Service Endorsement if any

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)			
TROPICAL FRESH WATER LINE above centre of disc	6 1/2"	Corresponding Freeboard	1 - 9"
FRESH WATER LINE " " "	3 1/4"	" "	1 - 2 1/2
TROPICAL LINE " " "	3 1/4"	" "	1' - 5 3/4
WINTER LINE below " " "	3 1/4"	" "	1' - 5 3/4
WINTER NORTH ATLANTIC LINE " " "	5 1/4"	" "	2 - 0 1/4
			2 - 2 1/4

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

[Signature]
Chief Surveyor

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

on the 5th JANUARY, 1944

[Signature]
Lloyd's Register
Foundation
Secretary

COMPUTATION OF FREEBOARD

Length on summer load line **213'-6"** Moulded Breadth **37'-0"** Moulded Depth **14'-6"** Depth of Keel **1 1/2'**
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth **2104** Tons
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .76$
 Displacement and tons per inch immersion in salt water at summer load line **2200 @ 16.8 T.P.I.**
 Moulded depth **14.50** Deduction for Fresh Water $\frac{\Delta}{40T} = 3 1/4$ inches
 Stringer Plate **3/8** .03 Round of Beam Correction
 Sheathing on exposed deck T $(\frac{L-S}{L})$ - Ships Round of Beam **4.80** inches
 Rise of floor (in sailers) - Standard Round of Beam $\frac{B \times 12}{50} = 8.88$
 Depth for Freeboard (D) **14.53** Difference **4.08**
 Table Depth **14.23** Restricted to
 Depth Correction **.30** Correction $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = 1.02 \times .3724 = .3799 \text{ on.}$
 If restricted by superstructures = **.49 on**

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	AA'-6'	SEE SKETCH	7'-6"	AA.5	-	47.59
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle	19'-6'		6'-7"	19.5		19.50
Trunk Aft						
" Forward	129'-6'		3'-2 1/4" aft 1'-8 3/16" fwd.			30.05
Tonnage Opening Aft						
" Forward						
Totals				64.00		97.14

Standard Height of Superstructure **6'-0"**
 " " R.Q.D.
 Percentage covered S/L = **29.98%**
 " " E/L = **45.50%**
 " from Table line A-B, (corrected for Tanker absence of forecastle if required) **36.50%**
 Percentage from Table by interpolation for Bridge less than .2L if required = **27.35% x .365 = 9.98 OFF.**
 Deduction = **9.98 OFF.**
 Percentage from Table for Tankers (or Timber ships) = **Deduction**

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	S. Product
A.P.	25.06	31.35	25.06	1	25.06
1/3 L from A.P.	8.75	13.95	8.75	4	35.00
2/3 L from A.P.	.88	3.45	.88	2	1.76
Amidships	-	-	-	4	-
1/3 L from F.P.	4.75	6.90	4.75	2	9.50
2/3 L " "	18.25	27.90	18.25	4	73.00
F.P.	41.69	62.70	41.69	1	41.69
				18	186.01
Effective Mean Sheer					10.334
Standard " "		.05L + 5			15.675
Difference					5.341

$S. 134.00$ % **62.76%**
 Mean Actual sheer aft = **LESS THAN 1.**
 " Standard " "
 Mean Actual sheer forward = **LESS THAN 1.**
 " Standard " "
 Length of enclosed superstructure forward of amidships = **---**
 Length of Ship
 Length of enclosed superstructure aft of amidships = **---**
 Length of Ship
 Sheer Correction = Difference $\times (75 - \frac{S}{2L}) = 5.341 \times .6001 = 3.205 \text{ on}$
 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 = **25.26**

Correction for co-efficient = $\frac{1440}{1360} = 26.74$ DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	
Depth correction	.49	-	
Deduction for superstructures	-	9.98	
Sheer correction	3.21	-	
Round of Beam correction	.38	-	
Correction for thickness of deck amidships	-	-	
Other corrections, scantlings, etc.	-	-	
	4.08	9.98	5.90

	Steamer, Tanker, Esso	Timber
Depth to Freeboard Deck in feet	14.530	
Summer Freeboard in feet	1.750	
Moulded Draught (d)	12.780	(d1)
Addition for Keel 1 1/2"	.125	
Extreme draught 12'-10 7/8"	12.905	

Summer Freeboard in Inches **1'-9"** = **20.84**
 Additional allowance for superstructures on Timber carrying ships = **-**
 Summer Timber Freeboard in inches = **-**
 Deduction for Tropical and addition for Winter freeboard $d/4 = 3.195$ ins.
 Addition for Winter North Atlantic (if required) = **5.195** ins.
 Deduction for Tropical Timber Freeboard $\frac{d}{3}$ = **-** ins.
 Addition for Winter " " = **-** ins.
 " " N.A. Timber Freeboard (if required) = **-** ins.

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THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

CONDITIONS OF ASSIGNMENT

SHIPS NAME

LOMA NOVA

OFFICIAL NUMBER

169663

Nationality and Port of Registry

BRITISH LONDON.

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	-	<i>21</i>	<i>3 x 3/8 x 7 x 7/16 T BAR</i> <i>27 x 7/16 FLATS</i>	<i>2'0"</i>	<i>WELOED ROUND BOTS</i> <i>TOP & BTM.</i>	<i>2 @ 21" x 60"</i>	<i>18" ABOVE TRUNK TOP</i>	<i>7'6"</i>
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead	-	<i>25</i>	<i>4 x 4 x 3/8 T. BAR</i> <i>4 x 3/8 FLATS</i>	<i>2'0"</i>	<i>BKTD. TOP CONNCTS.</i> <i>TO BK. LONG. WELOED BOT.</i>	<i>1 @ 21" x 55" MANHOLE</i>	<i>18"</i>	<i>6'7"</i>
Trunk, Aft		<i>15 Lgs.</i>	<i>3" x 3/8 FLATS</i>	<i>21"</i>	-	<i>12 @ 24" x 32"</i>	<i>8"</i>	
" Forward						<i>2 @ 23" x 15"</i> <i>2 @ 23" x 76"</i>	<i>6"</i> <i>10 1/2"</i>	
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								

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

Poop Bulkhead	<i>W.T. DOORS HINGED & DOGGED. OPENING BOTH SIDES</i>
R.Q.D. "	
Bridge Aft Bulkhead	-
" Forward "	-
Forecastle Bulkhead	<i>W.T. DOOR HINGED & DOGGED. OPENING BOTH SIDES</i>
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	-

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			<i>OPEN RAILS IN WELLS</i>		
Forward Well					

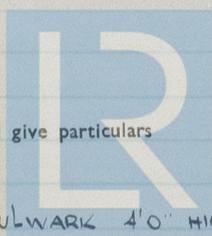
State fore and aft position and height above deck to bottom of port, for each port

} After Well

} Forward Well

State whether freeing ports are fitted with shutters, bars or rails, and give particulars

Give particulars of freeing port area, etc., on ^{BOAT} superstructure decks *BULWARK 4'0" HIGH 31'0" LONG 2 OPENINGS 3" x 2 1/2"*

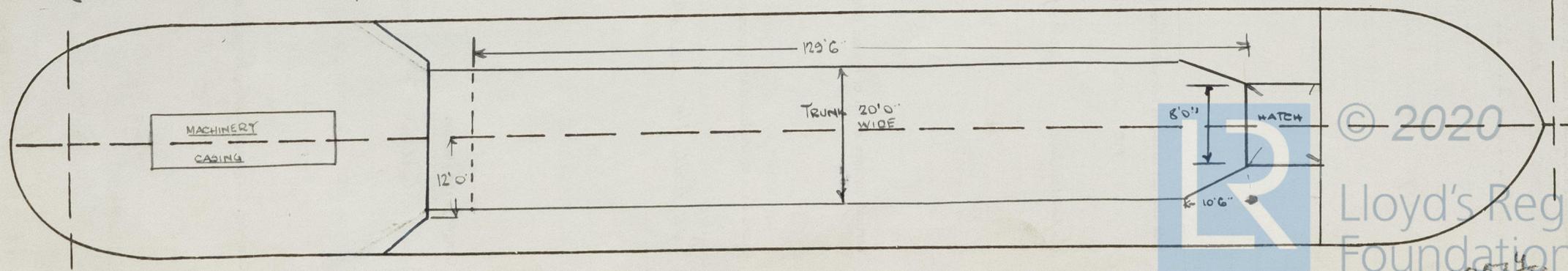
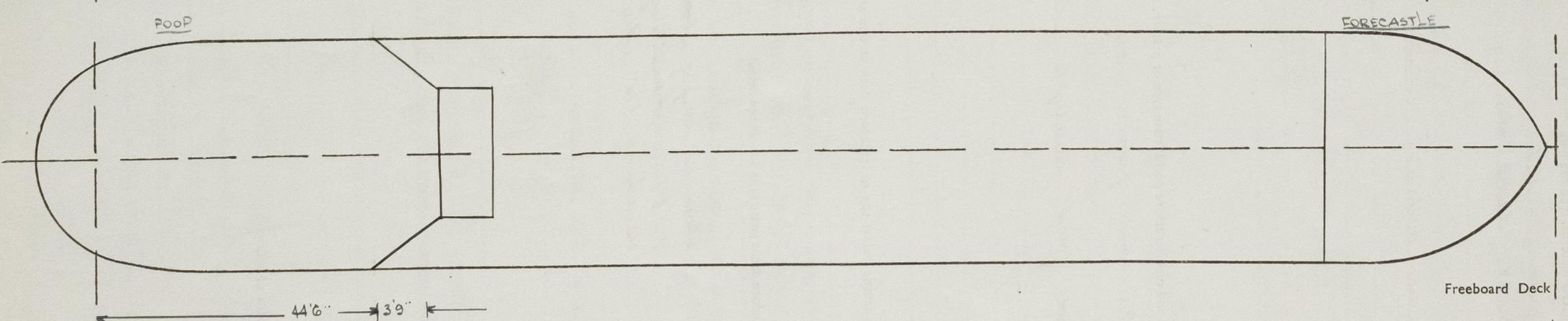
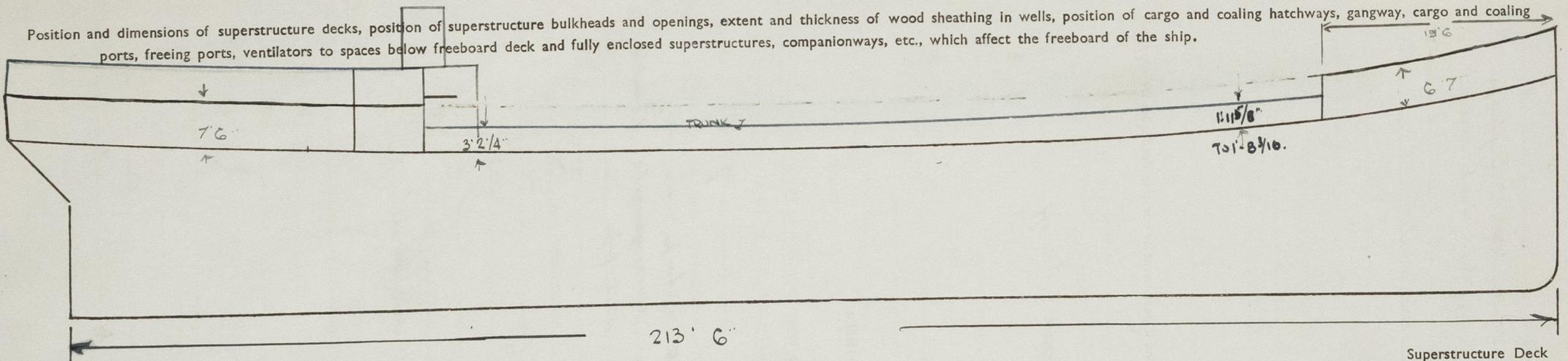


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Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling ports, freeing ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways, etc., which affect the freeboard of the ship.



PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

	MAIN DE.	FORE DE.								
Number and description of Hatchway from forward	80	1.								
Dimensions of Hatchway	8'6" x 7'11/2"	2'7" x 2'7"								
COAMINGS	Height above steel deck	26 1/2 AFT								
	Height above wood deck	24 FORWARD	12"							
	Thickness sides	7/16" AFT-SIDES	3/8"							
	Thickness ends	3/8" FORWARD	3/8"							
Stiffeners	4" x 7/16" F BAR LONG	NONE								
Brackets or Stays	2 x 3/8" PL BKTS. PYS.									
HATCH BEAMS	Number									
	Spacing									
	Scantling and Sketch									
Bearing Surface and thickness of carriers or sockets										
FORE AND AFTERS	Number									
	Spacing									
	Unsupported lengths									
	Scantling and Sketch									
Bearing Surface and thickness of carriers or sockets										
HATCH COVERS	Material	STEEL	STEEL							
	Thickness	5/16"	5/16"							
	How Fitted	BOLTED - DOUGGED RUBBER GASKETS	BOLTED - DOUGGED RUBBER GASKETS							
	Bearing Surface	7/16" AFT PYS 3/8" FORWARD	3/8"							
Spacing of Cleats										
Number of Tarpaulins										

Are tarpaulins in good condition and in accordance with rule requirements? -
 Are lashings provided in accordance with rule requirements? -

Are wood fore and afters steel shod at all bearing surfaces? -
 Are battens and wedges efficient and in good condition? -



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

From spaces below freeboard deck.

1/2", 2", 2 1/2", 3", 4" & 5", dia discharging overboard. cast steel, flapper & stop check valves

Roof space 1.2" dia discharging overboard. cast steel

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

no side scuttles below freeboard deck

Superstructures - hinged and deadlights. dogged 50 off.

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

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

Pipe Rail 1 1/4" dia steel. chain in way of boats & chocks & in way of pipe handling arrangements. Portable stanchions 1 1/4" dia. steel pipe.

Gangways and Lifelines

Lifeline 3/8" dia wire rope 18" off \pm to starboard.

Gangway, Cargo and Coaling Ports in sides of ship



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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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