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Rpt. C.11.

No. 1507.

Index. No.  
(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, <del>Sailing Ship</del>					Port of Survey <b>Wellington.</b>
having <b>Poop, Bridge, and Forecastle, and Two Steel Decks.</b>					Date of Survey <b>9th September, 1932.</b>
(Type of Superstructures.)					Name of Surveyor <i>W. H. H. H.</i>
Ship's Name <b>"WAINUI"</b>	Nationality and Port of Registry <b>British Wellington.</b>	Official Number <b>151518</b>	Gross Tonnage <b>1633</b>	Date of Build <b>2-1930</b>	Particulars of Classification <b>+ 100 A.1.</b>
Moulded Dimensions: Length <b>241' 0"</b> Breadth <b>38' 0"</b> Depth <b>21' 0"</b> Upper Deck					
Moulded displacement at moulded draught = 85 per cent. of moulded depth					
Coefficient of fineness for use with Tables					

<b>Depth for Freeboard (D)</b> Moulded depth ... Stringer plate ... Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) =	<b>Depth correction</b> (a) Where D is greater than Table depth (D - Table depth) R = (b) Where D is less than Table depth (if allowed) (Table depth - D) R = If restricted by superstructures	<b>Round of Beam correction</b> Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = <b>10"</b> Difference Restricted to Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) =$
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### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
File enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...					

Standard Height of Superstructure  
" " R.Q.D.  
Deduction for complete superstructure  
Percentage covered  $\frac{S}{L} =$   
" "  $\frac{S_1}{L} =$   
" "  $\frac{E}{L} =$   
Percentage from 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 =

### SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1					1		
$\frac{1}{4}L$ from A.P. ...		4					4		
$\frac{2}{4}L$ " ...		2					2		
Amidships ...		4					4		
$\frac{3}{4}L$ from F.P. ...		2					2		
$\frac{1}{4}L$ " ...		4					4		
F.P. ...		1					1		
Total ...									

Mean actual sheer aft =  
Mean standard sheer aft =  
Mean actual sheer forward =  
Mean standard sheer forward =  
Length of enclosed superstructure forward of amidships =  
" " aft of " =

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{75-S}{2L} \right) =$

If limited on account of midship superstructure.

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b> Depth to Freeboard Deck = Ft. Summer freeboard = Moulded draught (d) = Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	<b>Deduction for Fresh Water.</b> Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line $T =$ Deduction = $\frac{\Delta}{40 T}$ inches =	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) Correction for coefficient Depth Correction ... Deduction for superstructures ... Sheer correction ... Round of Beam correction ... Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... Summer Freeboard =
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### SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:-

Tropical Fresh Water Line above Centre of Disc	...
Fresh Water Line	" "
Tropical Line	" "
Winter Line	below " "
Winter North Atlantic Line	" "

Tropical Fresh Water Freeboard	...
Fresh Water	" "
Tropical	" "
Winter	" "
Winter North Atlantic	" "

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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS										
Description of Hatchway	No.1 F Dk.	No.2 F Dk.	No.3 F Dk.	No.4 F Dk.	No.2A S Dk.	F.Dk.4 Freeboard Deck - Upper Deck. S.Dk. Superstructure Deck - Bridge Deck				
Dimensions of Hatchway	4'-0" x 15'-0"	22'-0" x 15'-0"	16'-0" x 15'-0"	14'-0" x 15'-0"	7'-0" x 15'-0"					
COAMINGS	Height above Deck	29"	30"	29"	30"	18"				
	Thickness	.44	.44	.44	.44	.44				
	Sides	7x3 B.A.	7x3 B.A.	7x3 B.A.	7x3 B.A.	Nil				
	Stiffeners	ONE 1 1/2 DIA TWO 1 1/2 DIA 7'-6" APART MID LENGTH	ONE 1 1/2 DIA TWO 1 1/2 DIA 7'-6" APART MID LENGTH	ONE 1 1/2 DIA TWO 1 1/2 DIA 7'-6" APART MID LENGTH	ONE 1 1/2 DIA TWO 1 1/2 DIA 7'-6" APART MID LENGTH	Nil				
HATCH BEAMS	Number	2	3	2	2	Nil				
	Spacing	5' 8"	5' 6"	5' 8"	5' 8"	-				
	Scantling and Sketch									
	Bearing Surface	3/4"	3/4"	3/4"	3/4"	-				
FORE AND AFTERS	Number	None	None	None	None	None				
	Spacing									
	Unsupported Lengths									
	Scantling and Sketch									
HATCH COVERS	Material	Wood	Wood	Wood	Wood	Wood				
	Thickness	3"	3"	3"	3"	3"				
	How fitted	F&A	F&A	F&A	F&A	F&A				
	Bearing Surface	3"	3"	3"	3"	3"				
Spacing of Cleats	22"	23 1/2"	22 1/2"	22 1/2"	24"					
Number of Tarpaulins	3	3	3	3	3					

\*Are wood fore and afters steel shod at all bearing surfaces? **Not fitted.**  
 Are battens and wedges efficient and in good condition? **Yes**  
 Are tarpaulins in good condition and in accordance with rule requirements? **Yes.**  
 Are lashings provided in accordance with rule requirements? **Yes. 3 each side Nos.1,3, and 4. 4 each side No.2.**

Particulars of fiddle, funnel and ventilator coamings:— **Fiddle casing 30" above wood deck on Bridge Deck, hinged flaps, fitted. Machinery Ventilator Coamings over 6'-0" above Bridge Deck.**

Particulars of Companionways:— **Poop Efficient steel companionway to Crew's Quarters on xxxxxxxx, fitted with solid wood door 2" inches thick. Height of Sill. 12" ABOVE WOOD DECK.**

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:— **On Fore Deck 2 off, height of coaming 35 inches. On after Deck 2 off. height of coaming 35 inches.**

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:— **2 on Fore Deck and 2 on After Deck. Height 28 1/2 inches to 30 inches.**

Particulars of Gangway Cargo and Coaling Ports:—

## Particulars of Scuppers and Sanitary Discharge Pipes

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Particulars of Side Scuttles: **POOP 14 - 11" SIDELIGHTS WITH HINGED DEADLIGHTS. BRIDGE 27 - 11" FOCLE 9 - 11"**

Particulars of Guard Rails:— **Forecastle 3'-8" above wood deck. Bridge 3'-6 1/2" Poop 3'-6"**

**Bulwarks:— Height 3'-11", thickness .30", top angle 5 1/2" B.A., stays 6" B.plate.**

Particulars of Gangways, Lifelines, etc.:— **AMPLE PROVISION MADE FOR RIGGING LIFELINES IN FORE & AFTER WELLS**

Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	61'	3'-11"	48 1/2" x 22 1/2"	3	22.8 sq.ft.	12.6
Forward Well	56'	3'-11"	48 1/2" x 22 1/2"	3	22.8 sq.ft.	12.6

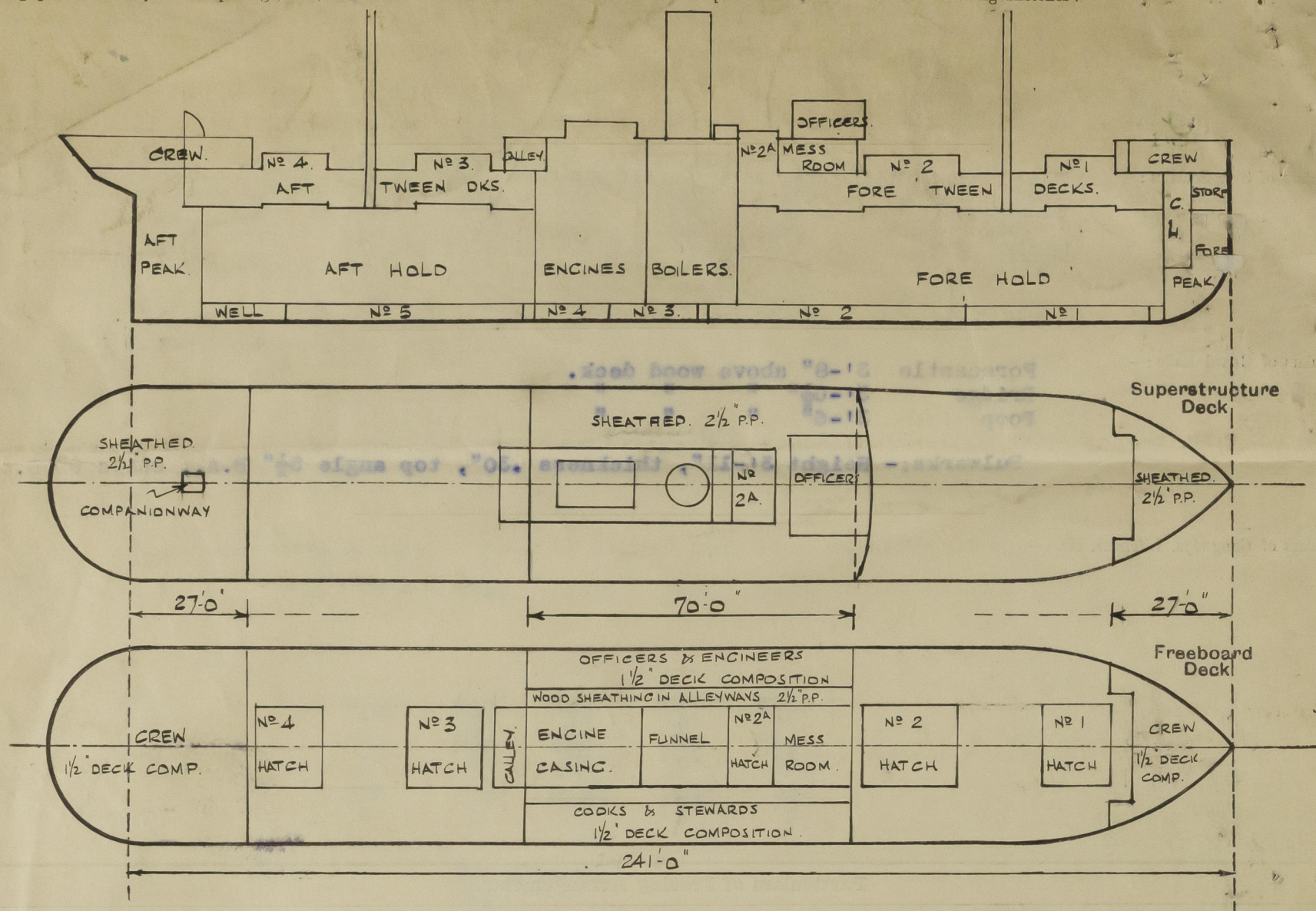
State position of each freeing port ... After Well:— 20'6", 35'6", and 50'0" from Poop front.  
 (F. and A. position and height above deck edge) Forward Well:— 4'6", 19'6", and 34'6" from Bridge front.  
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— 2 HORIZONTAL BARS & HINGED FLAPS.  
 Additional area where sheer is less than standard.

Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	None	.32	4 1/2" angle	30 ins.	Lugs top and bottom	None	-	7'2"
Raised Quarter Deck Bulkhead	-	-	-	-	-	-	-	-
Bridge, After Bulkhead	None	.32	3" angle	Various	None	3'1 1/2"	19 1/2"	6'11 1/2"
Bridge, Forward Bulkhead	None	.40	NOT SIGHTED	30 ins.	NOT SIGHTED	2'6"	18"	"
Forecastle Bulkhead	None	.32	3 1/2" angle	36 ins.	Lugs top and bottom.	1'9 1/2"	19"	7'2 1/2"
Trunk, Aft	-	-	-	-	-	-	-	-
Trunk, Forward	-	-	-	-	-	-	-	-
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	-	-	-	-	-	-	-	-
Exposed Machinery Casings on Superstructure Decks	-	-	-	-	-	-	-	-
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	.44	.24	3" angle	24"	Brackets	24"	12"	6'11 1/2"
Deckhouses on Flush Deck Ships	-	-	-	-	-	-	-	-

Particulars of Closing Appliances (state if capable of being manipulated from both sides).  
 Poop Bulkhead **No openings.**  
 Raised Quarter Deck Bulkhead **-----**  
 Bridge, After Bulkhead **Open. Half height storm boards in erected channels**  
 Bridge, Forward Bulkhead **Steel hinged doors with one wedge clip operable both sides and butterfly clips outside only. Solid teak door 2" thick**  
 Forecastle Bulkhead **-----**  
 Exposed Machinery Casings on Freeboard or Raised Quarter Decks **-----**  
 Exposed Machinery Casings on Superstructure Decks **Casing top and skylight only**  
 Machinery Casings within Superstructures not fitted with Class I Closing Appliances **Ordinary steel doors to Machinery Spaces operated from both sides**  
 Deckhouses on Flush Deck Ships **-----**



Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:—

NO TONNAGE OPENINGS IN DECK

Builder's name and yard number **Hawthorn, Leslie and Co.Ltd., Newcastle-on-Tyne. No 569**

Names of sister ships

Owners **Union Steam Ship Company of New Zealand Ltd.**

Fee £ **9 7** : - Received by me



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