

Rpt. C.11.

Newcastle-on-Tyne No. 88653. B.T. C.

Index No. 3346
(For London Office only.)

26 MAY 1932

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

Phister Deck with tonnage opening.

Port of Survey Newcastle-upon-Tyne

Date of Survey 23rd May 1932.

Name of Surveyor C. Stephenson.

Particulars of Classification +100A1.

Ship's Name

LORD CODRINGTON

(Type of Superstructures.)

Nationality and Port of Registry

Anglo African City

British

London

Official Number

161359

Gross Tonnage

5601.

Date of Build

1929-12.

Moulded Dimensions: Length 425' 5" Breadth 57' 66" Depth 28' 4" 28' 5"
 Moulded displacement at moulded draught = 85 per cent. of moulded depth
 Coefficient of fineness for use with Tables 777

Depth for Freeboard (D)

Moulded depth ... 28' 50"

Stringer plate ... 44" 04"

Sheathing on exposed deck

$$T \left(\frac{L-S}{L} \right) =$$

Depth for Freeboard (D) = 28' 54"

Depth correction

(a) Where D is greater than Table depth
(D-Table depth) R =

$$(28' 54" - 28' 37") 3.0 = 4.51$$

(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) 57' 66"

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} = 13.84$$

$$\text{Ship's Round of Beam} = 14 \frac{1}{2} = 14.5$$

Difference

Restricted to

$$\text{Correction} = \frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.66}{4} (.006) = .0009$$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	35' 08"	35' 08"	8' 0"		35' 08"
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	385' 25"	385' 25"	12' 0" RR		385' 25"
" overhang aft ...	385' 3"	385' 25"	8' 0" A		
" overhang forward ...			4' 6" A		
F'cle enclosed ...			Tonnage 12' 0"		
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...	5' 2" 5' 17"	2' 58"	9' 52"		2' 58"
" forward ...					
Total ...	425' 50"	422' 91"			422' 91"

Standard Height of Superstructure 7' 50"

" " R.Q.D.

Deduction for complete superstructure 42' 00"

Percentage covered $\frac{S}{L} = 100.00$ " $\frac{S_1}{L} = 99.40$ " $\frac{E}{L} = 99.40$

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) C88.

Deduction =

41' 69"

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	52' 55"	1	52' 55"	60' 00"	66' 00"	1	66' 00"
1/4 L from A.P. ...	23' 38"	4	93' 52"	26' 70"	29' 38"	4	117' 52"
3/4 L " ...	5' 78"	2	11' 56"	46' 60"	7' 26"	2	14' 52"
Amidships ...		4				4	
3/4 L from F.P. ...	11' 56"	2	23' 12"	13' 20"	13' 86"	2	27' 72"
1/4 L " ...	46' 77"	4	187' 08"	53' 41"	56' 10"	4	224' 40"
F.P. ...	105' 10"	1	105' 10"	120' 00"	126' 00"	1	126' 00"
Total ...			472' 93"				576' 16"

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{103' 23"}{18} \left(.75 - .50 \right) = -1' 43"$$

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 28' 54"
 Summer freeboard = 3' 55"
 Moulded draught (d) = 24' 99"

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6' 25" 6 1/4"

Addition for Winter North Atlantic Freeboard (if required =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$$\Delta = 137' 40"$$

Tons per inch immersion at summer load water line

$$T = 49' 83"$$

Deduction = $\frac{\Delta}{40 T}$ inches 6' 39"

$$= 7'$$

EX. DRAFT

26' 142' 43"

25' 139' 43"

25' 136' 44"

Tons per inch

50' 0"

49' 83"

49' 83"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$$\frac{777 + 680}{1.36} = 1.457$$

$$\frac{1.457}{1.36} = 1.07$$

$$\frac{1.07}{1.36} = .78$$

$$\frac{.78}{1.36} = .57$$

$$\frac{.57}{1.36} = .42$$

$$\frac{.42}{1.36} = .31$$

$$\frac{.31}{1.36} = .23$$

$$\frac{.23}{1.36} = .17$$

$$\frac{.17}{1.36} = .12$$

$$\frac{.12}{1.36} = .09$$

$$\frac{.09}{1.36} = .07$$

$$\frac{.07}{1.36} = .05$$

$$\frac{.05}{1.36} = .04$$

$$\frac{.04}{1.36} = .03$$

$$\frac{.03}{1.36} = .02$$

$$\frac{.02}{1.36} = .01$$

$$\frac{.01}{1.36} = .00$$

$$\frac{.00}{1.36} = .00$$

$$\frac{.00}{1.36} = .00$$

$$\frac{.00}{1.36} = .00$$

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ... 13' 1/4"
 Fresh Water Line " " ... 7'
 Tropical Line " " ... 6' 1/2"
 Winter Line below " " ... 6' 1/4"
 Winter North Atlantic Line " " ... 6'

Tropical Fresh Water Freeboard ... 3' 6 1/2"
 Fresh Water " ... 2' 5 1/4"
 Tropical " ... 2' 11 1/2"
 Winter " ... 3' 0 1/4"
 Winter North Atlantic " ... 4' 0 1/4"

3' 6 1/2"
 2' 5 1/4"
 2' 11 1/2"
 3' 0 1/4"
 4' 0 1/4"

27 MAY 1932

10m, 2, 31

RECEIVED 1 NOV 1932

RECEIVED 15 NOV 1932

Lloyd's Register Foundation

11 NOV 1932

Anglo-African

Particulars of fiddle, funnel and ventilator coverings:— Engine Room Skylight of steel, strongly constructed. ✓
Funnel and Ventilators good condition. ✓
Fiddle, gratings fitted with hinged steel covers. ✓

have.

One to new quarters aft. steel w/ strong construction
Opening 4'-4" x 24" : 15" sill: Solid oak door. 1 1/2" thick operated from both sides ✓
5'-0" x 3'-0" x 5'-10 high

On Superstructure deck			
"	"	1 @ 6" dia. x 36" high	314 to Fore Hatch.
"	"	1 @ 17" x 36"	38 " Hold.
"	"	8 @ 17" x 30"	420 "
"	"	2 @ 17" x 30"	440 " Bunkers.
"	"	1 @ 8 1/2" x 27"	26 " Tunnel.
"	"	2 @ 6" x 30"	30 " Store.

All roots supplied with wood plugs
and canvas covers.

On Superstructure decks: —

"	"	"	1 @ 4" dia.	13" to mouth.	to Fore Hatch.
"	"	"	1 @ 4 1/2 "	18 "	" C. O. B.
"	"	"	2 @ 6 "	18 "	"
"	"	"	2 @ 3 1/2 "	18 "	"
"	"	"	2 @ 4 "	18 "	"
"	"	"	2 @ 3 "	18 "	"

on Super⁴ deck 2 @ 4 1/2" dia 18" to month 15 C.O.
" " " 2 @ 2 1/2" " 18" " "

~~no means of closing~~ air pipes
no sufling holes. ✓

wood plugs provided for all air pipes

none.

All ~~no.~~ discharge pipes fitted with ~~own~~ storm valves. See diagrams for positions.
5" pipe scuppers from ~~gunboard~~ deck discharge below deck; all fitted with storm valves, p. 5.
1" ~~dia.~~ pipe scuppers from crew work houses on gunboard deck discharges over board with
no storm valves as per sketch.

DK-12

Gunboard

DK-18

X
scupper: led thru tonnage bulkhead
and overboard. ✓

Sidelights in Crew quarters aft. fitted with strong hinged deadlights.

Guardsails on superstructure deck, 3'-7" high; 3 rods; staunchions spaced 5'-0" to 5'-3" apart.

none fitted.

CREW BERTHERD AFT

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well						
Forward Well						

State position of each freeing port { After Well :—
(F. and A. position and height above deck edge) { Forward Well :—

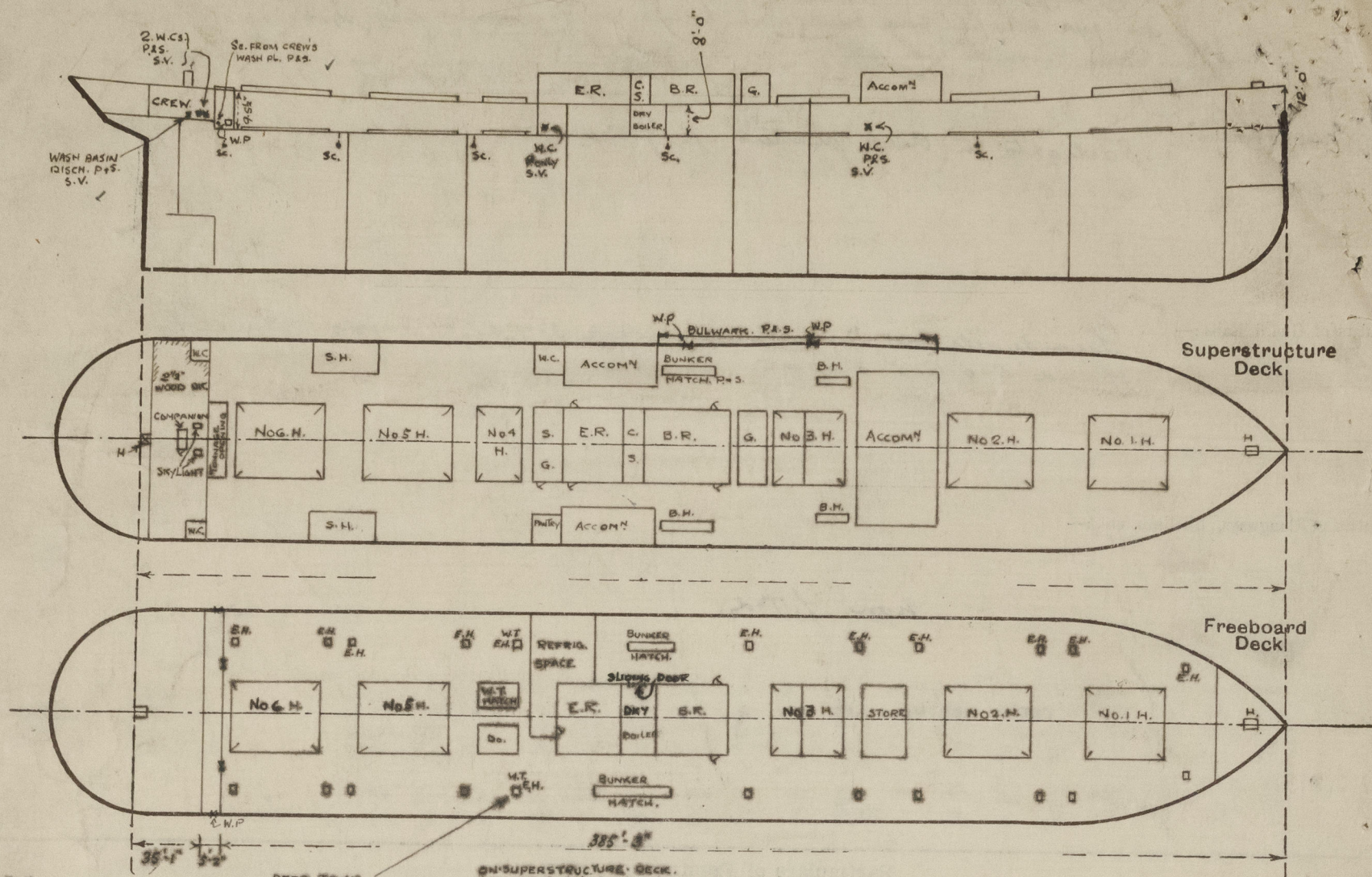
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :—

Additional area where sheer is less than standard.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead (<i>Tonnage Bld.</i>)...	✓	32 ✓	5" x 3" x 36 ✓	31" 31" ✓	✓	✓	✓	9' 6"
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead ...								
Bridge, Forward Bulkhead ...								
Forecastle Bulkhead (<i>Tonnage Bld.</i>)	✓	32 ✓	5" x 3" x 36 ✓	32" ✓	✓	2 @ 4' 6" x 37" ✓	16"	9' 6"
Trunk, Aft ...								
Trunk, Forward ...								
Exposed Machinery Casings on Free- board or Raised Quarter Decks ...		✓	✓					
Exposed Machinery Casings on Super- structure Decks ...	42	38	3 1/2" x 3" x 30"	31" ✓	44 1/2" x 7 1/2" in E.R. only.	4 @ 4' 6" x 23" 1 @ 5' 0" x 28" ✓	20" 21	8' 0"
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ...	✓	34 ✓	3 1/2" x 3" x 30" ✓	31" ✓	✓	2 @ 4' 5" x 23" ✓ 1 @ 4' 5" x 24 1/2" ✓	18" 16"	8' 1"
Deckhouses on Flush Deck Ships ...								

Poop Bulkhead	No opening
<u>Raised Quarter Deck Bulkhead</u> ...	✓
Bridge, After Bulkhead	
Bridge, Forward Bulkhead	
Forecastle Bulkhead (Image 92d)	3" wood weather boards in riv'd channels full height of opening. ✓
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	
Exposed Machinery Casings on Superstructure Decks	To E.R. & Fiddley 4 ordinary steel hinged doors operated from both sides.
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	To E.R. Main side only, steel hinged door operated from both sides; also clips to secure from inside only. To Fiddley 2 ordinary steel hinged doors operated from both sides.
Deckhouses on Flush Deck Ships ...	To Donkey Boiler space 1 sliding steel door operated from one side only.

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:—

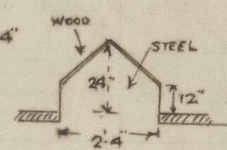


TONNAGE
OPENING
5'-0" x 21'-0"
COAMING 10" x 38"
2 1/2" COVERS W.R.
2 1/2" BEARING SURFACE.
WASH PORT IN TONNAGE SPACE: P.S.
OPENING 24" x 24": 12" ABOVE DECK.
3/8" FROM PORT END: STEEL HINGED DOOR FITTED.

DEEP TANK
ESCAPE HATCHES.
2. 8'-0" x 8'-0"
COAMING 10 1/2" x 3 1/2" x 40 L.
W.T. PLATE COVER 40.
BOLTS 5/8" APART.

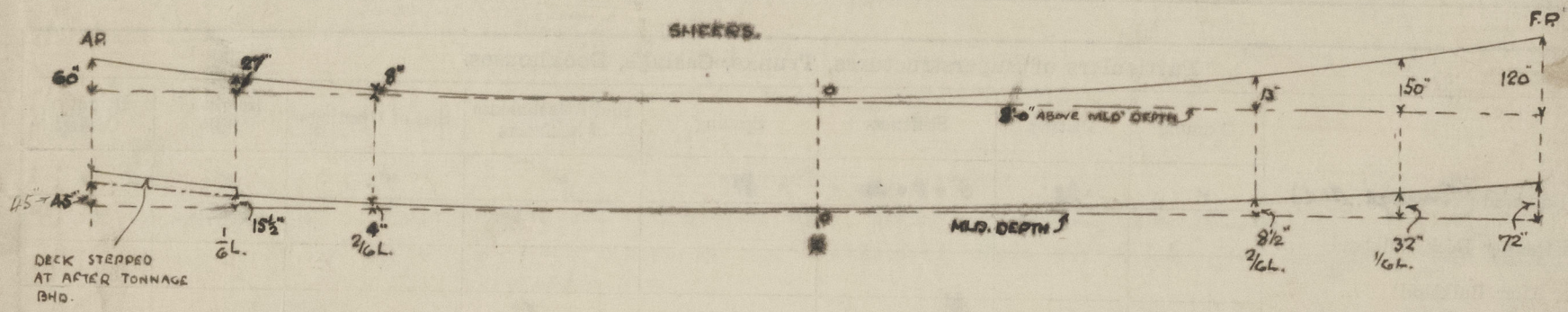
ON SUPERSTRUCTURE DECK.
BULKHEAD: 9'-0" x 5'-0" HIGH.
FRUING PORTS: 2 @ 3'-9" x 9".
10 1/2" ABOVE DECK.
No rods or shutters.

2 SKYLIGHTS TO CREW AFT. 4'-6" x 2'-4"
STEEL COAMINGS 34
WOOD TOP 1 1/4" THICK.
SECURED BY QUADRANTS.
TARPAULIN CLEATS SPACED 29"



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

*OMIT. Ship measured afloat
Shen line of Freeboard deck broken at after tonnage bulkhead and deck heights
vary as stated on diagram.*



Builder's name and yard number *Short Bros. Ltd Sunderland.*

Names of sister ships

Owners *Nitrate Producers Steamship Co. Ltd*

Fee £ *13* : *12* : *0*

Received by me

[Signature]



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