

8-10-41

LL 4C/10. for B.T. ✓ LL 4C/D ask Auths ✓
LL 4C/10. owner. ✓

Form LL. 4.C. Revised

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

1856.

ARIETTA

SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILER

Ex "EMPIRE CRANMER"

WITH TIMBER DECK CARGO
WITHOUT

Nationality

BRITISH GREEK

Builders' Name and No. of Ship

J.L. THOMPSON & SONS LTD

Port of Registry

SUNDERLAND LONDON

Nº 610.

SUNDERLAND

Official Number

168946

585

CODE LETTERS SVZK

Owners

M/O W.Y. (MANGS)

MUNGO CAMPBELL & CO LTD, NEWCASTLE

S.G. EMERICOS LTD LONDON.

Gross Tonnage

7460

Date of Build

10/41

Port and Date of survey

SUNDERLAND (During Construction)

Name of Surveyor

J.D. Rufus.

Particulars of Classification

B.S.* (with Freeboard)

Names of Sister Ships

"EMPIRE WAVE", "EMPIRE HUDSON"

"EMPIRE LAWRENCE"

Type of Superstructures

Closed Skelter Deck (middle line opening aft, permanently closed).

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

13 1/2" 350 mm

Corresponding Freeboard

10'-6 1/2" 3210

9'-5" 2860

FRESH WATER LINE

" " "

7" 180 mm

" "

9'-11 1/2" 3030

TROPICAL LINE

" " "

6 1/2" 170 mm

" "

10'-0" 3040

WINTER LINE

below " "

6 1/2" 170 mm

" "

11'-1" 3380

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

Expire

12th Oct 1946.

Issue

13th Oct 1941

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

Chief Surveyor

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

on the

5th November 1941



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Secretary

002550-002558-0218

COMPUTATION OF FREEBOARD ^{28' 7" 62nd DK}

Length on summer load line 417' 6" Moulded Breadth 59' 4" Moulded Depth 37' 4" Depth of Keel 28'

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 17325 Tons

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .7682$

Displacement and tons per inch immersion in salt water at summer load line 14417 Tons 50.43 T.P.D.

Moulded depth 37' 4" 37.333 Deduction for Fresh Water $\frac{\Delta}{40 T} = 7.147$ inches

Stringer Plate .65" .054 Round of Beam Correction

Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$ / Ships Round of Beam 14 1/2 14.50 inches

Rise of floor (in sailers) /

Standard Round of Beam $\frac{B \times 12}{50}$ 14.30

Depth for Freeboard (D) 37.387

Difference .20

Table Depth L/15 27.833

Restricted to

Depth Correction 3 9.554 38.667

Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) = .05 \times 1$

If restricted by superstructures

= .05 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 7' 6"

" " R.Q.D. /

Percentage covered S/L = /

" " E/L = /

" from Table line A, B, (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
A.P.	4'-6"	51.75	54	1	54
1/3 L from A.P.	2'-0"	28.03	24	4	96
1/3 L from A.P.	6"	5.69	6	2	12
Amidships	-	/	/	4	/
1/3 L from F.P.	11 1/2"	11.38	11.5	2	23
1/3 L " "	3'-10 1/2"	46.06	46.5	4	186
F.P.	8'-9"	103.50	105	1	105
				18	476

Mean Actual sheer aft = >1

Mean Actual sheer forward = >1

Length of enclosed superstructure forward of amidships = /
Length of Ship

Length of enclosed superstructure aft of amidships = /
Length of Ship

Sheer Correction = Difference $\times \left(75 - \frac{S}{2L}\right) = 569 \times .75 = 427$ off

Effective Mean Sheer = 26.444

Standard " " .05L + 5 = 25.875

If limited on account of midship superstructure

Difference 0.569 to maximum allowance of 1 1/2 ins. per 100 ft. = /

TABULAR FREEBOARD corrected for flush deck if required = 77 + 6.2625 = 83.2625

Correction for co-efficient = 1.4182 1.26 = 88.66 DRAUGHTS AND SEASONAL CORRECTIONS

	+	-		
Depth correction	38.66	/	Steamer	Timber
Deduction for superstructures	/	/	Depth to Freeboard Deck in feet	37.387
Sheer correction	/	.43	Summer Freeboard in feet	10.542
Round of Beam correction	/	.05	Moulded Draught (d)	26.845
Correction for thickness of deck amidships	/	/	Addition for Keel	.177
Other corrections, scantlings, etc.	9.66	/	Extreme draught	27.022
	38.32	.48		

Summer Freeboard in inches 10' 6 1/2" = 126.5

Additional allowance for superstructures on

Timber carrying ships = /

Summer Timber Freeboard in inches = /

Deduction for Tropical and addition for Winter freeboard d/4 = 6.711 ins.

Addition for Winter North Atlantic (if required) = / ins.

Deduction for Tropical Timber Freeboard $\frac{d}{4}$ = / ins.

Addition for Winter " $\frac{d}{3}$ = / ins.

" " N.A. Timber Freeboard (if required) = / ins.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

CONDITIONS OF ASSIGNMENT

SHIPS NAME

Thyaki
"EMPIRE CRANMER"

OFFICIAL NUMBER

585 C.L. SVLX
168996

Nationality and Port of Registry :-

BRITISH, SONDERLAND.

Greek Consulate General 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	✓							
R.Q.D. "	✓							
Bridge Aft Bulkhead	✓							
" Forward "	✓							
Forecastle Bulkhead	✓							
Trunk, Aft	✓							
" Forward	✓							
Exposed Machinery Casings on } Freeboard or R.Q. Decks	34"	30"	3"x3"x5/16"	30"	To Boundary	22 5'-0"x2'-0"	24"	10'-6"
Exposed Machinery Casings on } superstructure decks								
Machinery Casings within Super- } structures not fitted with Cl. 1 } closing appliances	34"	26"	3"x3"x5/16"	30"		22 5'-0"x2'-0"	18"	4'-6"
Deckhouses on flush deck ships								

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	Steel Doors operated from both sides
Exposed Machinery Casings on } superstructure decks	
Machinery Casings within super- } structures not fitted with Cl. 1 } Closing Appliances	Steel Doors operated from both sides
Deck houses on Flush Deck ships	

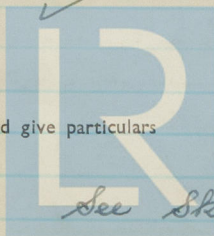
PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well			✓		
Forward Well					

State fore and aft position and height above } deck to bottom of port, for each port	After Well
	Forward Well

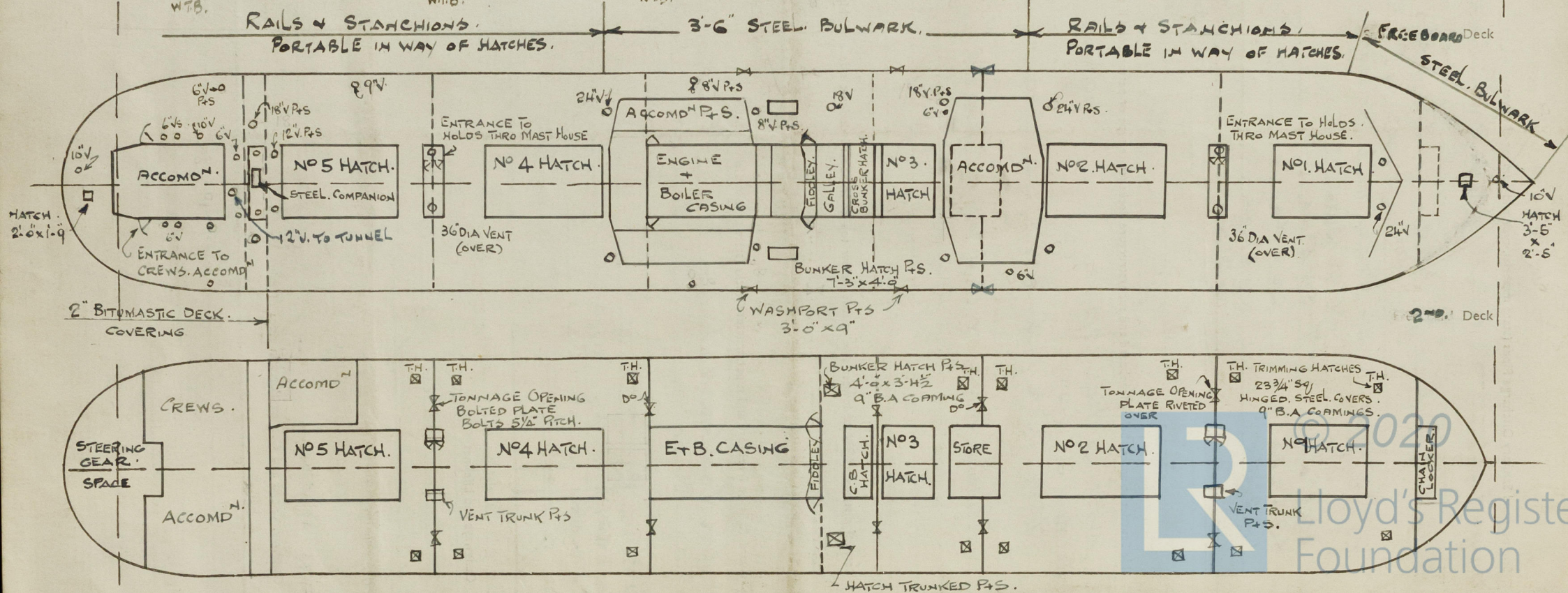
State whether freeing ports are fitted with shutters, bars or rails, and give particulars

Give particulars of freeing port area, etc., on superstructure decks



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UPPER DECK-

2ND DECK

WOOD
TRUNK
PART
MATCH
COVERS

NOT FITTED

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ements? Yes
Locking bar.

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

Yes

Give full particulars of the following :—

Fiddle, 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 fiddle covers, and if these are permanently attached in their proper positions)

Engine Room casing above Bridge Deck = 3'-0"
 Fiddle casing above Upper Deck = 10'-6"
 Engine Room Skylight - Hinged steel flaps (no Bull's eyes)
 Fiddle Grating covers - Hinged steel flaps.

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)

Crews entrance thro' steel house aft 2" Wood Doors operated from both sides, coamings 24" above deck composition.

Steel companion to tween decks accommodation (Defence Personnel) steel coaming 24", strong wood door, operated from both sides.

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)

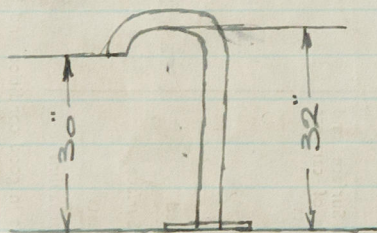
Coamings 24" Dia = .42" thick
 18" " = .40" "
 12" = .34" "
 10" = .32" "
 6" = .30" "

Steel coamings welded to deck.

Coamings on Freeboard Deck .36" high

Closing arrangements - wood plugs & canvas covers.

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



Closing Arrangements - Wood Plugs.



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

From Freeboard Deck - Scuppers thro Gunwale bar (compensated)

From 2nd Deck :- To bilges - loaded cocks in machinery space

Pipes w.I. steam quality

Sanitary Discharges :- Brass bodies, brass clacks (balanced type) - w.I pipes. steam quality.

Port Side. Starboard Side.

3 @ 4" dia

5 @ 4" dia

4 @ 2 1/2" dia

2 @ 3" dia

1 @ 2" dia

1 @ 2 1/2" dia

1 @ 2" dia

Sanitary Discharges below 2nd Deck.

Port Side 1 @ 2" dia (from neg. room). This discharge has a keru down plug at inboard end.

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

Steering Gear Space.

10" Dia

1 PORT & STARBOARD.

Crew Space.

10" "

6 " "

Queen Deck Accomdn (Defence)

10 "

4 PORT.

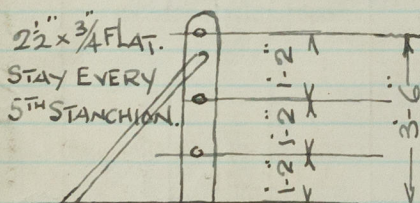
1 STARBOARD.

Brass frames & G.I. deadlights

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)

On Freeboard Deck :- 3" x 1" Flats welded to Deck
Top Rail 1 1/4" Dia tube
2 Rails 1/8" Dia rod.



Gangways and Lifelines

Lifelines. - Manila.

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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