

WRECK SECTION

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

28 APR 1932

Index No. 25036
(For London Office only.)

West of Pool
Report 7144

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

Prop Bridge & Forecastle

Port of Survey

West of Pool

Date of Survey

Name of Surveyor

L. W. Dixon

Particulars of Classification

100A1

Ship's Name

LITTLETON

NOW NAMED

LEONIDAS Z. CAMBANIS

Nationality and Port of Official Number

Registry

Greek

London

Gross Tonnage

4274

Date of Build

1917-5m

Moulded Dimensions: Length

389.83

Breadth

53.0

Depth

26.0

Moulded displacement at moulded draught = 85 per cent. of moulded depth

10310

tons

Coefficient of fineness for use with Tables

.790

Depth for Freeboard (D)

Moulded depth ... 26.0

Stringer plate04

Sheathing on exposed deck

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

Depth for Freeboard (D) = 26.04

Depth correction

(a) Where D is greater than Table depth

(D - Table depth) R =

(26.04 - 25.99) 3 = +.15

(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)

Standard Round of Beam = $\frac{B \times 12}{50} = 12.72$

Ship's Round of Beam = 13

Difference = .28

Restricted to

Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.28}{4} \times .1776 = -.01$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	40.125	40.125	8.0	/	40.12
" overhang ...	.3	.15	.	.	.15
R.Q.D. enclosed ...	✓	✓	✓	✓	
" overhang ...	✓	✓	✓	✓	
Bridge enclosed...	244.375	244.375	8.0	✓	244.38
" overhang aft ...	.3	.22	.	.	.22
" overhang forward	.3	.15	.	.	.15
File enclosed open..	35.375	35.375	8.0	✓	35.38
" overhang ...	.3	.30	.	.	.30
Trunk aft ...	✓	✓	✓	✓	
" forward ...	✓	✓	✓	✓	
Tonnage opening aft ...	✓	✓	✓	✓	
" " forward	✓	✓	✓	✓	
Total ...	321.07	320.70			320.70

Standard Height of Superstructure

7.4

" " R.Q.D.

Deduction for complete superstructure

41.32

Percentage covered $\frac{S}{L} =$

82.37%

" " $\frac{S_1}{L} =$

82.26%

" " $\frac{E}{L} =$

82.26%

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

78.10%

Percentage from Table, Line B.

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = $41.32 \times .7810 = - 32.27$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	48.98	1		48.98	48	48.00	1		48.00
1/2 L from A.P. ...	31.79	4		87.16	21 1/4	20.93	4		83.72
1/4 L " ...	5.38	2		10.76	5 1/4	5.23	2		10.46
Amidships ...	—	4		—	—	—	4		—
1/4 L from F.P. ...	10.77	2		21.54	11 1/4	11.11	2		22.22
1/2 L " ...	43.59	4		174.36	45	44.43	4		177.72
F.P. ...	97.97	1		97.97	102	102.00	1		102.00
Total ...				440.77					444.12

Mean actual sheer aft = Deficient.
Mean standard sheer aft

Mean actual sheer forward = Excess.
Mean standard sheer forward

Length of enclosed superstructure forward of amidships =

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{.18} \left(.75 - \frac{S}{2L} \right) = \frac{3.35}{.18} \left(.75 - .4118 \right) = -.06$

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 = 26.04

Summer freeboard = 3.48

Moulded draught (d) = 22.56

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 5.64 = 5 3/4

Addition for Winter North Atlantic Freeboard (if

required =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 10584$

Tons per inch immersion at summer load water line

T = 41.96

Deduction = $\frac{\Delta}{40 T}$ inches

= 6.3 = 6 3/4

TABULAR FREEBOARD 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. ...

68.35

73.88

15

32.27

.06

.01

—

15

32.34 - 32.19

Summer Freeboard = 41.69

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 " " ...

3' 5 3/4" 1060 mm

2' 5 3/4" 755

2' 11 1/2" 901

3' 0" 914

3' 11 1/2" 1206

MARKING FORM

29 SEP 1932

RECEIVED

Servida. Comboni.

Particulars of Scuppers and Sanitary Discharge Pipes —

Particulars of Side Scuttles :

Particulars of Guard Rails :-

Particulars of Gangways, Lifelines, etc. :—

Particulars of fiddley, funnel and ventilator coamings:—

Particulars of Flush Bunker Scuttles:—

Particulars of Companionways :—

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :—

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks :—

Particulars of Gangway Cargo and Coaling Ports:—

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

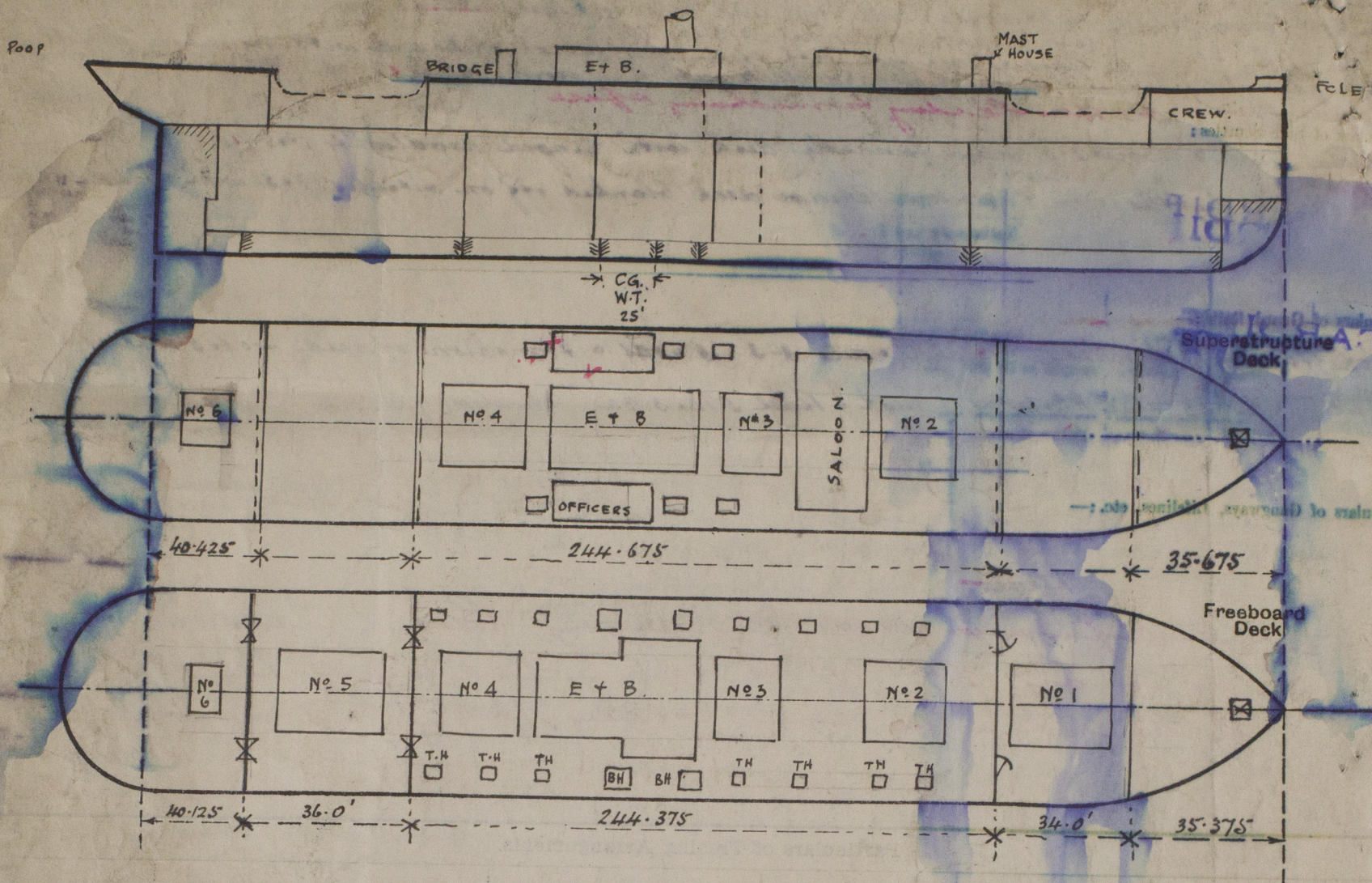
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

Poop Bulkhead	...	...	...	2 openings closed with 3" stormboards fitted full height	
Raised Quarter Deck Bulkhead	...	...	...	✓
Bridge, After Bulkhead	...	...	...	2 openings closed with 3" stormboards fitted full height	1
Bridge, Forward Bulkhead	...	...	...	2 hinged steel doors secured with bolts spaced 6" apart	1
Forecastle Bulkhead	...	...	...	3 hinged steel doors - one wood door operated from both sides, one opening closed up to height of 5'-8" from deck by 2" wood in channels in alleyway	1
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	...	...	...	3 hinged steel doors operated from both sides	
Exposed Machinery Casings on Superstructure Decks	...	...	...	1 hinged steel door operated from one side only	1
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	...	...	...	✓
Deckhouses on Flush Deck Ships	...	...	...	✓

Lloyd's Register

W 411-0069(2/2)

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:—

There are no special features.

*This Vessel has now been taken over by Greek Owners
 viz:— The Heirs of Leonidas Z Cambanis.. Port of Register Andros.
 The 2nd Special Survey No 1 is now being carried out. Vessel has been examined
 in Dry Dock.*

The Owners have provided the following particulars

*Moulded Displacement at 85% moulded dft. = 10310
 External " " 22'0" draught 1020 m 94m per inch 41'9
 280 10710 " " 41'99*

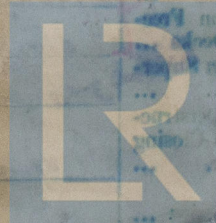
Builder's name and yard number *W. Pickersgill & Sons & 193*

Names of sister ships

Owners *The Heirs of Leonidas Z Cambanis*

Fee £ *12 : 15 : 0*

Received by me



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Foundation