

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

GLASGOW REPORT No. 58194

Computation of Freeboard for <sup>MOTOR</sup> <del>Steamer, Sailing Ship, Tanker</del>					Port of Survey <u>GLASGOW</u>
having <u>A POOP, BRIDGE &amp; FORECASTLE</u>					Date of Survey <u>19<sup>TH</sup> MARCH 1937</u>
(Type of Superstructures.)					Name of Surveyor <u>H. Thomson.</u>
Ship's Name <u>SAN CIPRIANO</u>	Nationality and Port of Registry <u>BRITISH LONDON.</u>	Official Number <u>165480</u>	Gross Tonnage <u>7966.41</u>	Date of Build <u>1937</u>	Particulars of Classification <u>+ 100A.1.</u> <u>CARRYING PETROLEUM IN BULK</u> <u>(CONTINGENT)</u>
Moulded Dimensions: Length <u>460'-0"</u> Breadth <u>59'-0"</u> Depth <u>34'-0"</u>					
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>17707</u> tons					
Coefficient of fineness for use with Tables <u>.790</u>					

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth ... ..	34.0	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	59.0
Stringer plate ... ..	.78	(34.06 - 30.66) 3 = + 10.20		Standard Round of Beam = $\frac{B \times 12}{50}$	14.16
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	14.75
Depth for Freeboard (D) =	34.06	If restricted by superstructures		Difference	.59
				Restricted to	
				Correction = $\frac{\text{Diff}^a}{4} \times \left( 1 - \frac{S_1}{L} \right)$	= - .09

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ... ..	94.00	94.00	7.5	✓	94.00
" overhang ... ..	none				
R.Q.D. enclosed ... ..					
" overhang ... ..					
Bridge enclosed <u>43.48</u>	43.48	43.48	7.5	✓	43.48
" overhang aft ... ..	none				
" overhang forward ... ..	none				
F'cle enclosed ... ..	47.88	47.88	7.5	✓	47.88
" overhang ... ..	none				
Trunk aft ... ..					
" forward ... ..					
Tonnage opening aft ... ..					
" " forward ... ..					
Total ... ..	185.36	185.36			185.36

Standard Height of Superstructure	7.5
" " R.Q.D.	✓
Deduction for complete superstructure	42.0
Percentage covered $\frac{S}{L} =$	40.29
" " $\frac{S_1}{L} =$	40.29
" " $\frac{E}{L} =$	40.29
Percentage from Table, <u>Line A. TANKER</u>	31.29
(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 = $42.0 \times 31.29 =$	- 13.14

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ... ..	56.00	1	56.00	56.50	56.50	1	56.50
$\frac{1}{2}$ L from A.P. ... ..	24.92	4	99.68	25.00	25.00	4	100.00
$\frac{2}{8}$ L " ... ..	6.16	2	12.32	6.50	6.50	2	13.00
Amidships ... ..	✓	4	✓	✓	✓	4	✓
$\frac{2}{8}$ L from F.P. ... ..	12.32	2	24.64	13.00	13.00	2	26.00
$\frac{1}{2}$ L " ... ..	49.84	4	199.36	52.00	52.00	4	208.00
F.P. ... ..	42.00	1	112.00	115.50	115.50	1	115.50
Total ... ..			504.00				519.00

Mean actual sheer aft = none  
Mean standard sheer aft = none

Mean actual sheer forward = none  
Mean standard sheer forward = none

Length of enclosed superstructure forward of amidships = 1  
" " aft of " = 1

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{15}{18} \left( .75 - \frac{.2015}{10.15} \right) = -.47$$

If limited on account of midship superstructure. ✓

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

Deduction for Tropical Freeboard.  
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 34.06 Ft.  
Summer freeboard = 6.71  
Moulded draught (d) = 27.2935

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches =  $6.82\frac{1}{2}$  =  $6\frac{3}{4}$ Addition for Winter North Atlantic Freeboard (if required) =  $4.60 + 6.82\frac{1}{2} = 11.42\frac{1}{2} = 11\frac{1}{2}$ 

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$$\Delta = \frac{16468}{16502}$$

Tons per inch immersion at summer load water line

$$T = 56.0$$

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

$$= \frac{7.37}{40 \times 56} = .33$$

$$= .33$$

TABULAR FREEBOARD corrected for Flush Deck (if required)

$$\text{Correction for coefficient} = \frac{.790 + .68}{1.36} =$$

Depth Correction ... ..

Deduction for superstructures ... ..

Sheer correction ... ..

Round of Beam correction ... ..

Correction for Thickness of Deck amidships ... ..

Other corrections, scantlings, etc. ... ..

+	-
10.20	
	13.14
	.46
	.09
	.69
10.20	13.14

Summer Freeboard = 80.49SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ... ..	14.4	Tropical Fresh Water Freeboard ... ..	5.62
Fresh Water Line " " ... ..	7.5	Fresh Water " " ... ..	6.1
Tropical Line " " ... ..	6.34	Tropical " " ... ..	6.134
Winter Line below " " ... ..	6.34	Winter " " ... ..	7.32
Winter North Atlantic Line " " ... ..	11.2	Winter North Atlantic " " ... ..	7.8

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
F. D. S.			← UPPER DECK →			POOP DECK			
Description of Hatchway	...	...	CARGO HATCH	TO FORE PEAK STORE	TO CARGO OIL TANKS	TO COFFEDAMS & OIL TANKS	TO STORE		
Dimensions of Hatchway	...	...	9'-0" x 14'-0"	3'-0" x 3'-0"	4'-0" x 3'-0"	2'-0" x 1'-11"	3'-0" x 2'-0"		
COAMINGS	Height above Deck	...	30	9 x 3 1/2 x 40	30	10 x 5 1/2 x 3 1/2 x 40	9 x 3 1/2 x 50		
	Thickness	Sides	1/4"		1/4"				
	Stiffeners	Ends	1/4"		1/4"				
	Brackets, Stays	...	Y.B.A. ENDS ONLY		none				
			none	←	→				
HATCH BEAMS	Number	...							
	Spacing	...							
	Scantling and Sketch	...							
	Bearing Surface	...			none				
FORE AND AFTERS	Number	...							
	Spacing	...							
	Unsupported Lengths	...							
	Scantling* and Sketch	...							
	Bearing Surface	...			none				
HATCH COVERS	Material	...	steel	W.P.	Hinged steel	steel	steel		
	Thickness	...	W.T.	3	W.T.	W.T.	W.T.		
	How fitted	...	crad	3	crad	crad	crad		
	Bearing Surface	...							
Spacing of Cleats	...	...	none	24					
Number of Tarpaulins	...	...	none	2					
*Are wood fore and afters steel shod at all bearing surfaces? none 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? none									

Particulars of fiddle, funnel and ventilator coamings:—

ingene skylight and ventilators on casing top of steel and strongly constructed

Particulars of Flush Bunker Scuttles:—

none.

Particulars of Companionways:—

Entrances to Pump rooms.  
4'-6" x 2'-9" - 18" sill.

Hinged steel w.t. door.

Manipulated from both sides.

Entrances to engine spaces on Poop deck aft.  
5'-0" x 2'-0" - 18" sill.

Hinged steel door

Manipulated from both sides.

Entrances to food pump room in forecabin  
5'-0" x 2'-0" - 15" sill

Hinged steel w.t. door

Manipulated from both sides.

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

1	vent	crossing on forecabin deck to stove	36 x 6 x 30
2	"	" " " pump room	36 x 10 x 32
2	"	" " " hold	36 x 10 x 32
4	"	" " " fore deck to pump room	36 x 24 x 40
2	"	" " " bridge deck to pump room	30 x 6 x 30
2	"	" " " after deck to pump room	36 x 24 x 40
3	"	" " " poop deck to pump room	30 x 14 x 36
1	"	" " " stove	9'6" x 12 x 34 clipped to blk.
3	"	" " " pump room	30 x 8 x 30
3	"	" " " " "	30 x 6 x 30

Vent coamings closed with w.t. steel caps or wood plugs and canvas covers

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

1	air pipe	on forecabin deck to fore peak tank	34" high x 3 1/2" dia.
2	"	" " " deep tank	18" " x 3 1/2"
2	"	" " " fore deck to cofferdam	33 1/2" " x 2 1/2"
2	"	" " " after " " "	51" " x 2 1/2"
4	"	" " " on fore tanks	63" " x 4" } clipped to blk.
2	"	" " " poop " " "	18" " x 4"
2	"	" " " a. p. tank	18" " x 3"

air pipes closed with canvas covers

Particulars of Gangway Cargo and Coaling Ports:—

none.



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Particulars of Scuppers and Sanitary Discharge Pipes:— There are no scupper pipes from upper deck or decks below discharging below the foreward deck except from upper deck in poop space where scuppers are fitted with storm valves at ships side and non-detachable screw plugs at upper deck.  
There are no sanitary pipes discharging from decks below the upper deck.  
Sanitary pipes from poop + bridge decks discharge below the upper deck and have storm-valves fitted at ships side.

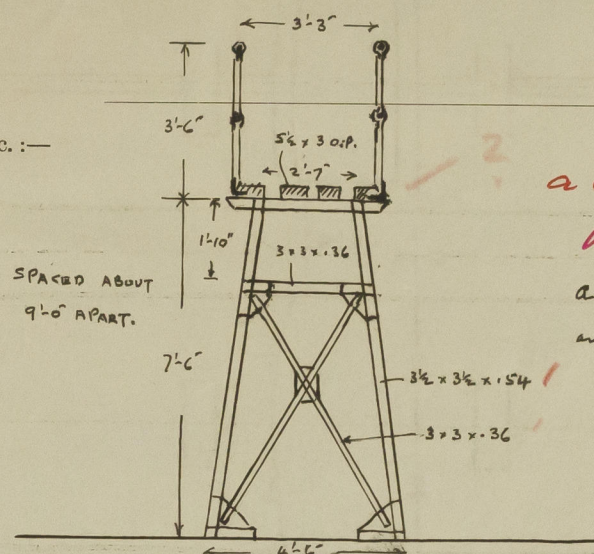
Particulars of Side Scuttles:—

Side scuttles are fitted below the upper deck in way of machinery space only.  
9" dia. fitted with hinged steel deadlights. Inner edge of inner deadlight 33'-0" above base line.  
There are no deadlights in forecastle space.  
Side scuttles in bridge + poop spaces 9" dia. fitted with hinged steel deadlights

Particulars of Guard Rails:—

Guard rails on upper deck in wells and on Poop, bridge and forecastle decks  
3'-6" high with 3 rails. Stanchions about 5'-0" apart.

Particulars of Gangways, Lifelines, etc.:—



a 6x3x3x 26/38 Channel is fitted at top of gangway supports.

a Gangway as per sketch is fitted between the Poop and Bridge decks and between the Bridge & Forecastle decks.

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 ... ..						
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.

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	46	10 x 3 1/2 x 47 B.A.	33	lugs top welded bottom	4'-6" x 2'-9"	18"	✓
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead ... ..	none	32	4 x 3 x 32 A	33	brackets at top only	4'-6" x 3'-0"	15"	✓
Bridge, Forward Bulkhead ... ..	none	46	9 x 3 1/2 x 55 B.A.	33	brackets top welded bottom	4'-6" x 3'-1"	18"	✓
Forecastle Bulkhead ... ..	none	30	4 x 3 x 32 A	30	none	5'-6" x 4'-1"	12"	✓
Trunk, Aft ... ..								
Trunk, Forward ... ..								
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...								
Exposed Machinery Casings on Super-structure Decks ... ..	none	34 + 30	3 x 3 x 30	30 3/4	brackets at top only	5'-0" x 2'-0"	18"	7'-6"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..								
Deckhouses on Flush Deck Ships ...								

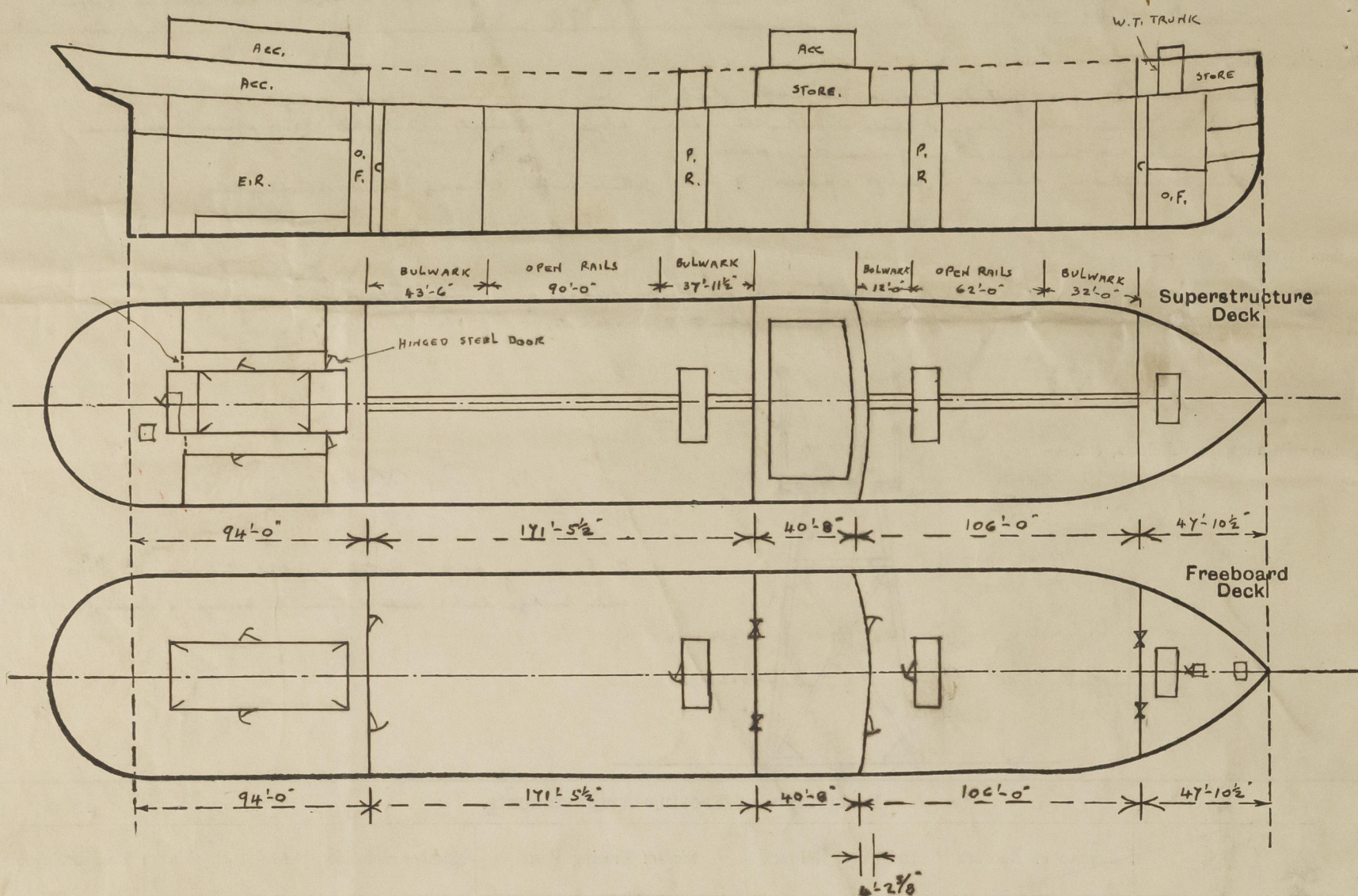
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ... ..	Hinged steel w.t. doors. manipulated from both sides.
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead ... ..	Bolted steel plates. Bolts not passing through bulkheads.
Bridge, Forward Bulkhead ... ..	Hinged steel w.t. doors. manipulated from both sides.
Forecastle Bulkhead ... ..	Bolted steel plates. Bolts not passing through bulkheads.
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	
Exposed Machinery Casings on Super-structure Decks ... ..	Hinged wood doors. manipulated from both sides.
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	
Deckhouses on Flush Deck Ships ...	



*San Cipriano*

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 shown on the following sketches:—



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

*approved plans of midship section, Profile & Deck forwarded for reference.*

*Bridge. 40.67  
2/3 x 4.22 = 2.81  
43.48  
equivalent*

*8117.*

Builder's name and yard number *Alghero S.B. Co Ltd. No 45.*

Names of sister ships *None. See Builders Nos 42-3 & 4.*

Owners *Eagle oil & shipping Co Ltd.*

Fee £ *will be charged later.* Received by me



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