

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

Having Bridge & Forecastle

(Type of Superstructures.)

Ship's Name California Standard Nationality and Port of Registry Panama Official Number 11246 Gross Tonnage 1929-4 Date of Build 1929-4

Moulded Dimensions: Length 812'-0" Breadth 67' 11" Depth 39'-5 1/4"

Moulded displacement at moulded draught = 85 per cent. of moulded depth 27110 (estimated) tons

Coefficient of fineness for use with Tables .814

Port of Survey Halifax

Date of Survey Feb 5th & 6th 1936

Name of Surveyor R. C. Moffitt

Particulars of Classification 1100 A1 *Carrying Petroleum in bulk*

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	39.44	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	67.92
Stringer plate	.07	(39.51 - 34.13) × 3 = + 16.14		Standard Round of Beam = $\frac{B \times 12}{50}$	16.30
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	16.34
$T \left(\frac{L-S}{L} \right) =$				Difference	.45
Depth for Freeboard (D) =	39.51	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.45}{4} \times 83.29 = -.09$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	✓					Standard Height of Superstructure <u>7.5'</u>
" overhang ...	✓					" " R.Q.D. <u>✓</u>
R.Q.D. enclosed ...	✓					Deduction for complete superstructure <u>42</u>
" overhang ...	✓					Percentage covered $\frac{S}{L} = 16.83$
Bridge enclosed ...	39.31	39.31	7.55	✓	39.31	" " $\frac{S_1}{L} = 16.71$
" overhang aft ...	2.50	1.87			1.87	" " $\frac{E}{L} = 16.71$
" overhang forward ...	✓					Percentage from Table, Line A. Tanker <u>11.70</u>
Fore enclosed ...	44.37	44.37	7.87		44.37	(corrected for absence of forecastle (if required))
" overhang ...	✓					Percentage from Table, Line B. <u>✓</u>
Trunk aft ...	✓					(corrected for absence of forecastle (if required))
" forward ...	✓					Interpolation for bridge less than .2L (if required) <u>✓</u>
Tonnage opening aft ...	✓					Deduction = $42 \times 1.17 = - 4.91$
" " forward ...	✓					
Total ...	86.18	85.55			85.55	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	61.20	1		61.20	50.00	50.00	1		50.00	Mean actual sheer aft = Deficient
1/2 L from A.P. ...	27.23	4		108.92	17.50	17.50	4		70.00	Mean actual sheer forward = Deficient
3/4 L " ...	6.735	2		13.47	0.50	0.50	2		1.00	Mean standard sheer forward
Amidships ...	-	4		-	-	-	4		-	Length of enclosed superstructure
3/4 L from F.P. ...	13.47	2		26.94	-	-	2		-	L forward of amidships = } Tanker
1/2 L " ...	54.46	4		217.84	23.50	23.50	4		94.00	" " aft of " = }
F.P. ...	122.40	1		122.40	114.00	114.00	1		114.00	
Total ...				550.77					329.00	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(75 - \frac{S}{2L} \right) = \frac{221.77}{18} \left(75 - \frac{.0841}{.6659} \right) = + 8.20$

If limited on account of midship superstructure. ✓If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Deduction for Tropical Freeboard.		Deduction for Fresh Water.		TABULAR FREEBOARD corrected for Fresh Deck (if required)		
Addition for Winter and Winter North Atlantic Freeboard.		Displacement in salt water at summer load water line		Correction for coefficient	$\frac{68 + 814}{1.36} = \frac{1.494}{1.36}$	90.26
Depth to Freeboard Deck = <u>39.51</u>		Δ =		Depth Correction ...	16.14	99.16
Summer freeboard = <u>9.87</u>		Tons per inch immersion at summer load water line		Deduction for superstructures ...	- 4.91	
Moulded draught (d) = <u>29.64</u>		T =		Sheer correction ...	8.20	
Deduction for Tropical freeboard and addition for		Deduction = $\frac{\Delta}{40T}$ inches		Round of Beam correction ...	- 0.09	
Winter freeboard = $\frac{d}{4}$ inches = <u>7.41 = 7 1/2</u>				Correction for Thickness of Deck amidships ...	-	
Addition for Winter North Atlantic Freeboard (if required) = <u>7.41 + 5.12 = 12.53 = 12 1/2</u>				Other corrections, scantlings, etc. ...	-	
					24.34	5.00 + 19.34
						Summer Freeboard = 118.50

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Weld, Steel, Deck: 9'-10 1/2"

Tropical Fresh Water Line above Centre of Disc ...	15 1/2
Fresh Water Line " " ...	8
Tropical Line " " ...	7 1/2
Winter Line below " " ...	7 1/2
Winter North Atlantic Line " " ...	12 1/2

Tropical Fresh Water Freeboard ...	8 - 7
Fresh Water " " ...	9 - 2 1/2
Tropical " " ...	9 - 3
Winter " " ...	10 - 6
Winter North Atlantic " " ...	10 - 11

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	For d	Hold	23 bil hatches	access to fore	2 Small hatches				
Dimensions of Hatchway	10' 4" x 11' 10"	6' 0" x 3' 7"	8' 2" dia	2 1/2" x 3' 6"					
COAMINGS	Height above Deck	30"	80"	24"	30"				
	Thickness	50	.44	.44	.40				
	Sides								
	Stiffeners								
HATCH BEAMS	Number	none	none	none	none				
	Spacing								
	Scantling and Sketch								
	Bearing Surface								
FORE AND AFTERS	Number	none	none	none	none				
	Spacing								
	Unsupported Lengths								
	Scantling* and Sketch								
HATCH COVERS	Material	Hinged Steel	Hinged Steel	Hinged Steel	Hinged Steel				
	Thickness	1/2" thick	1/2" thick	1/2" thick	1/2" thick				
	How fitted	with 4 stiffeners	with 2 stiffeners	with 2 stiffeners	with 2 stiffeners				
	Bearing Surface	with 4 stiffeners	with 2 stiffeners	with 2 stiffeners	with 2 stiffeners				
*Are wood fore and afters steel shod at all bearing surfaces? <input checked="" type="checkbox"/>									
Are battens and wedges efficient and in good condition? <input checked="" type="checkbox"/>									
Are tarpaulins in good condition and in accordance with rule requirements? <input checked="" type="checkbox"/>									
Are lashings provided in accordance with rule requirements? <input checked="" type="checkbox"/>									

Particulars of fiddle, funnel and ventilator coamings:— Engine room skylight with strongly constructed
Stokehold gratings covered with hinged steel plates
Funnel & fiddle ventilator coamings in good condition

Particulars of Flush Bunker Scuttles:—

none

Particulars of Companionways:— For Pump Room. Steel Companion way with
hinged steel watertight door 16" sill

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

Fore Dk. 1 @ 18" dia 36" high aft Dk. 1 @ 6" dia 30" high
2 @ 12" " 36" " 2 @ 14" " stayed to superstructure
1 @ 2 1/2" " goose-neck 7ft high suitably stayed.
Fore Dk. 2 @ 12" " carried to Fore Bhd. after superstructure Dk. 2 @ 14" dia 27" high
8 @ 12" " 36" high 2 @ 10" " 27" "
Steel covers provided for ventilators

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

Fore Dk 2 @ 5" dia with sluice valves from fore deep tanks.
aft Dk 4 @ 2 1/2" " 3' 6" high gauze covered

Particulars of Gangway Cargo and Coaling Ports:—

none

California Standard

Upper Deck Scuppers

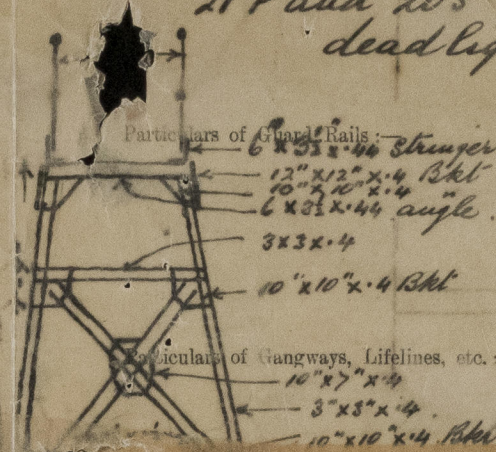
For deck 3 P+S thru gunwale aft accommodation bar

Particulars of Scuppers and Sanitary Discharge Pipes:—

Scuppers to superstructure 7 1/2" freeboard on port & starboard sides aft discharge about 6 ft below freeboard deck and have no valves. Sanitary Discharges aft have single valves fitted at shipside about 6 ft below freeboard deck. Sanitary discharge P+S amidships have open pipes of substantial thickness in wing cargo tanks (see page 4)

Particulars of Side Scuttles:—

after accommodation below freeboard deck 21 P and 20 S 12" diam with hinged glass and hinged deadlights of substantial construction



Fore & Stern 3 Rails & Stanchions 43" high 50" apart
3 Chains & Stanchions 43" high 50" apart on ship sides

Fore & aft gangway from after superstructure to Bridge with 13 supports as per sketch and from bridge to forecabin with 9 similar supports.
2 Rails & Stanchions on gangway 39" high 36" apart

Particulars of Freeing Arrangements.

Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
Well		Chains & Stanchions			
Fore Well					
Position of each freeing port on deck edge. After Well:— Fore Well:— If the freeing ports are fitted with shutters, bars, rails, and give particulars of such:— Additional area where sheer is less than standard					

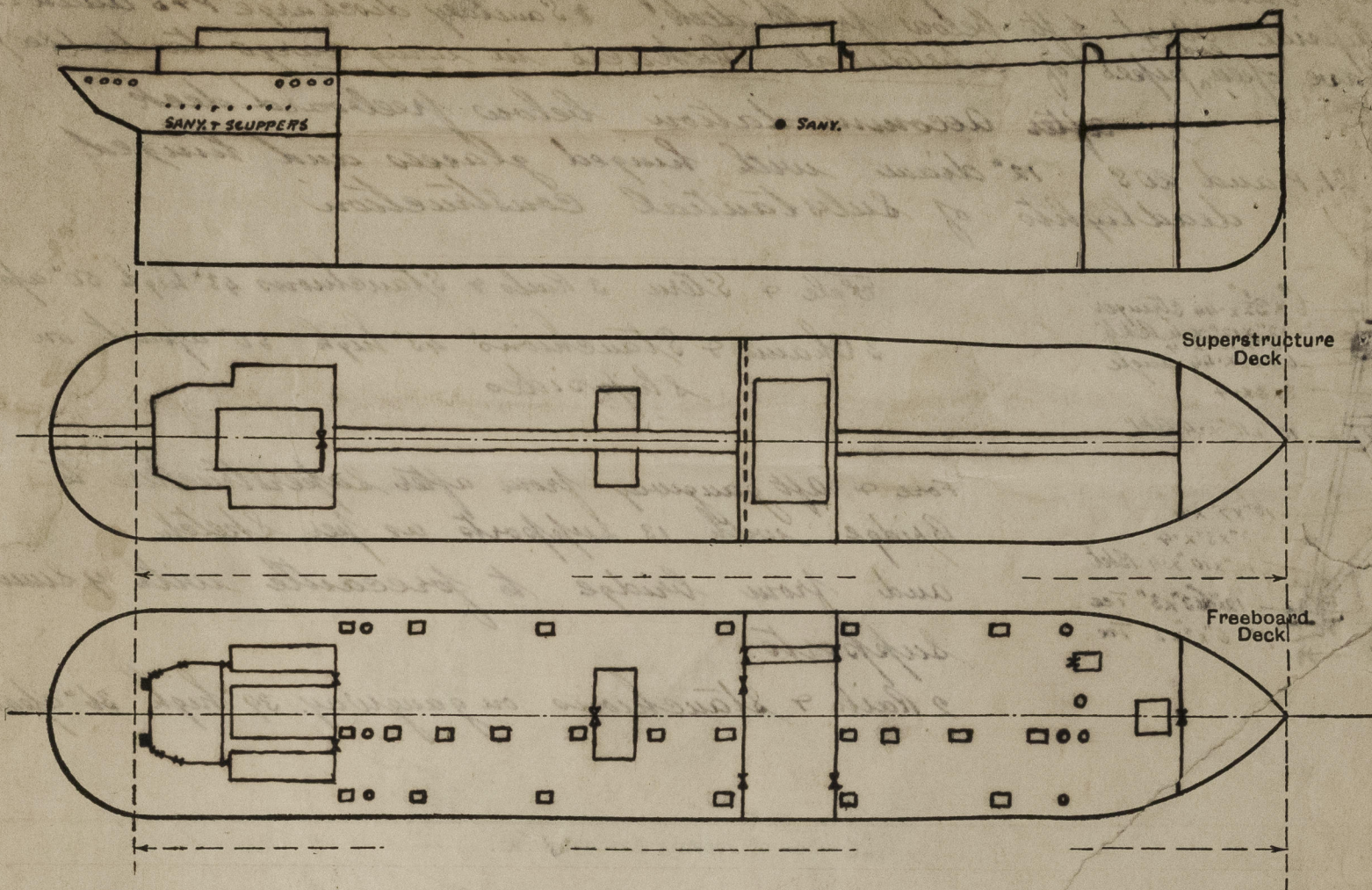
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
Raised Quarter Deck Bulkhead								
Bridge, After Bulkhead	7/16"	5/16"	6" x 3" x 3" BA	36"	lugs top Bkt bottom	2 @ 5' 0" x 2' 6"	16"	7' 10"
Bridge, Forward Bulkhead	7/16"	7/16"	9 1/2" x 3 1/2" J	33 1/2"	Bkt top & Bkt	2 @ 5' 0" x 2' 6"	16"	7' 10"
Forecabin Bulkhead	7/16"	7/16"	6" x 3" x 3" BA	32"	Bkt top	5' 0" x 2' 6"	16"	7' 6 1/2"
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	7/16"	7/16"	6" x 3" x 3" BA	20"	Bkt top	5' 0" x 2' 6"	15"	7' 0"
Exposed Machinery Casings on Superstructure Decks	7/16"	7/16"	9 1/2" x 3 1/2" J	33 1/2"	Bkt top	5' 0" x 2' 3"	18"	7' 0"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances			4" x 3" x 3/8"	26"	none	4' 6" x 2' 2"	15"	6' 6"
Deckhouses on Flush Deck Ships	7/16"	7/16"	Stiffeners, mascon					

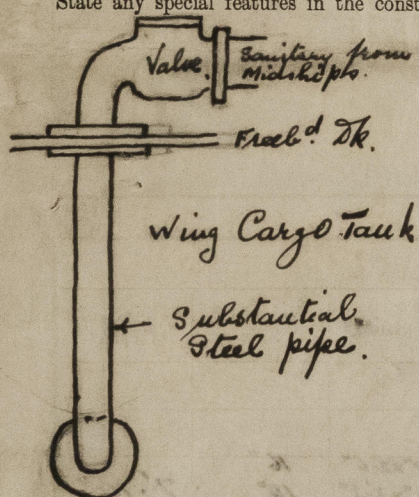
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	
Raised Quarter Deck Bulkhead	
Bridge, After Bulkhead	2 Hinged steel w.t. doors manipulated both sides
Bridge, Forward Bulkhead	1 steel plate hook bolted. Bolts 12" apart pass through Bkt plating.
Forecabin Bulkhead	2 Hinged steel w.t. doors manipulated both sides
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	1 Hinged steel w.t. door manipulated both sides
Exposed Machinery Casings on Superstructure Decks	Hinged steel w.t. doors manipulated both sides
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	Hinged steel w.t. door manipulated 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:—



Sanitary discharge
system from
Midships Accommod.

P 93

This vessel has been examined in dry dock
& found in good condition

The nationality of the vessel has been changed
& she is now registered at Panama. R.P

The new owners are. The Foreign Tankship
Corporation of 225 Bush Street San Francisco
California

Builder's name and yard number

Frd. Krupp. Akt Ges. Kiel

Names of sister ships

Owners

The Foreign Tankship Corporation

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