

27 JUL 1932

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Index No. 711 107  
(For London Office only.)Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.

Computation of Freeboard for <u>Tanker</u>					Port of Survey <u>Pontarunth</u>
Having <u>POOP, BRIDGE &amp; FORECASTLE</u>					Date of Survey <u>21.7.32</u> <u>25.7.32</u>
(Type of Superstructures.)					Name of Surveyor <u>Freemiller</u>
Ship's Name <u>PRESTOL</u>	Nationality and Port of Registry <u>BRITISH</u> <u>LONDON</u>	Official Number <u>140442</u>	Gross Tonnage <u>2629</u>	Date of Build <u>1917-12</u>	Particulars of Classification <u>+100 AT</u> <u>In Government Service</u> <u>carrying petroleum in bulk</u>
Moulded Dimensions: Length <u>319.7</u> Breadth <u>41.33</u> Depth <u>25.5</u>					SS No. 3-330
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>5448</u> tons					
Coefficient of fineness for use with Tables <u>.666 = .68 minimum</u>					

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... .. <u>25.50</u>	(a) Where D is greater than Table depth (D-Table depth) R = <u>(25.54 - 21.32) 2.46 = + 10.38</u>	Moulded Breadth (B) <u>41.33</u>
Stringer plate ... .. <u>.04</u>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$ <u>9.92</u>
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = <u>10.0</u>
Depth for Freeboard (D) = <u>26.54</u>		Difference <u>.08</u>
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{.08}{4} (1 - .5652) = -.01$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ... ..	<u>96.00</u>	<u>46.00</u>	<u>8.0</u>		<u>46.00</u>	Standard Height of Superstructure <u>6.70</u>
" overhang ... ..						" " R.Q.D.
R.Q.D. enclosed ... ..						Deduction for complete superstructure <u>36.65</u>
" overhang ... ..						Percentage covered $\frac{S}{L} =$ <u>59.90</u>
Bridge enclosed... ..	<u>106.50</u>	<u>106.50</u>	<u>8.0</u>		<u>106.50</u>	" " $\frac{S_1}{L} =$ <u>56.52</u>
" overhang aft ... ..						" " $\frac{E}{L} =$ <u>56.52</u>
" overhang forward ... ..						Percentage from Table, Line A.
Fore enclosed ... ..	<u>31.97</u>	<u>24.67</u>	<u>8.0</u>		<u>24.67</u>	(corrected for absence of forecastle (if required))
" overhang ... ..	<u>7.03</u>	<u>3.52</u>			<u>3.52</u>	Percentage from Table, Line B.
Trunk aft ... ..						(corrected for absence of forecastle (if required))
" forward ... ..						Interpolation for bridge less than 2L (if required)
Tonnage opening aft ... ..						Deduction = <u>36.65 + 4.816 = - 17.65</u>
" " forward ... ..						
Total ... ..	<u>191.50</u>	<u>180.69</u>			<u>180.69</u>	

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ... ..	41.97	1		41.97	33.2	33.25	1		33.25	Mean actual sheer aft = deficient
$\frac{1}{2}$ L from A.P. ... ..	18.68	4		74.72	15	14.61	4		58.44	Mean actual sheer forward = deficient.
$\frac{2}{3}$ L " ... ..	4.62	2		9.24	4	3.64	2		7.28	Mean standard sheer forward
Amidships ... ..		4			0		4			Length of enclosed superstructure forward of amidships =
$\frac{2}{3}$ L from F.P. ... ..	9.23	2		18.46	9	7.09	2		14.18	" aft of " = Tanker.
$\frac{1}{2}$ L " ... ..	37.36	4		149.44	30	28.44	4		113.76	
F.P. ... ..	83.94	1		83.94	66	66.00	1		66.00	
Total ... ..				377.77					292.91	

sheer fwd  $\frac{2}{3}$

9.23	7.09	3	27.69	21.27
37.36	28.44	3	112.08	85.32
83.94	66.00	1	83.94	66.00
			223.71	172.59

$\frac{223.71}{172.59} = 77.46\%$

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{84.86}{18} (.75 - .2995) = +2.12$

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 = 25.54  
Summer freeboard = 3.33  
Moulded draught (d) = 22.21

## Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 5.55 = 5 $\frac{1}{2}$ Addition for Winter North Atlantic Freeboard (if required) = 3.2 = 3 $\frac{1}{4}$ 

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$  5630

Tons per inch immersion at summer load water line

T = 25.1Deduction =  $\frac{\Delta}{40 T}$  inches= 5.61= 5 $\frac{1}{2}$ 

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction ... ..	<u>10.38</u>	
Deduction for superstructures ... ..		<u>17.65</u>
Sheer correction ... ..	<u>2.12</u>	
Round of Beam correction ... ..		<u>.01</u>
Correction for Thickness of Deck amidships ... ..		
Other corrections, scantlings, etc. ... ..		
	<u>12.50</u>	<u>17.66</u>

Summer Freeboard = 39.88

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

Tropical Fresh Water Line above Centre of Disc ... ..	<u>11</u>
Fresh Water Line " " ... ..	<u>5<math>\frac{1}{2}</math></u>
Tropical Line " " ... ..	<u>5<math>\frac{1}{2}</math></u>
Winter Line below " " ... ..	<u>5<math>\frac{1}{2}</math></u>
Winter North Atlantic Line " " ... ..	<u>8<math>\frac{3}{4}</math></u>

Tropical Fresh Water Freeboard ... ..	<u>3'-4"</u>
Fresh Water " " ... ..	<u>2'-5"</u>
Tropical " " ... ..	<u>2'-10<math>\frac{1}{2}</math>"</u>
Winter " " ... ..	<u>2'-10<math>\frac{1}{2}</math>"</u>
Winter North Atlantic " " ... ..	<u>4'-0<math>\frac{3}{4}</math>"</u>

MARKING FORM  
RECEIVED 15 SEP 1930  
RECEIVED 22 AUG 1934MARKING FORM  
RECEIVED 17 AUG 1932Lloyd's Register  
Foundation



## PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS										
Description of Hatchway		ON FOREDECK TO FORECASTLE	ON FOREDECK TO FORECASTLE	2 OT ON DECK	2 OT ON DECK	ON AFT DECK TO TUNNEL	ON POOP TO TUNNEL	ON POOP TO STEERING FLAT	2 OT ON AFT DECK	
Dimensions of Hatchway		4'6" x 4'6"	6'3" x 5'9"	5'3" x 2'6"	3'0" x 2'6"	2'2" x 2'	2'4" x 2'9"	4'0" x 2'6"	3'3" x 2'6"	
COAMINGS	Height above Deck	31"	31"	31"	31"	31"	32"	21"	31"	
	Thickness	44	44	40	40	40	40	40	40	
	Stiffeners	44	44	40	40	40	40	40	40	
	Brackets, Stays	✓	✓	✓	✓	✓	✓	✓	✓	
HATCH BEAMS	Number									
	Spacing									
	Scantling and Sketch									
	Bearing Surface									
FORE AND AFTERS	Number									
	Spacing									
	Unsupported Lengths									
	Scantling* and Sketch									
	Bearing Surface									
HATCH COVERS	Material	STEEL	-do-	-do-	-do-	-do-	-do-	-do-	-do-	
	Thickness	40	-do-	-do-	-do-	-do-	-do-	-do-	-do-	
	How fitted	W F COVERS	-do-	OT COVERS	-do-	W F COVER	-do-	-do-	OT COVERS	
	Bearing Surface									
Spacing of Cleats		✓	✓	✓	✓	✓	✓	✓		
Number of Tarpaulins		✓	✓	✓	✓	✓	✓	✓		

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

Are battens and wedges efficient and in good condition ?

Are tarpaulins in good condition and in accordance with rule requirements ?

Are lashings provided in accordance with rule requirements ?

Particulars of fiddley, funnel and ventilator coamings:—

<sup>officient long steel</sup>  
 No ~~shut~~ cones or stakehold gratings.  
 Filling of ~~cones~~ & stakehold coverings in good condition.  
 All abutments of shut strongly constructed.

Particulars of Flush-Bunker Scuttles:—

Particulars of Companionways :—

Particulars of Companionways:—

Bridge Deck 16 officers quarters...	4' x 3' x 6' high	$\frac{5}{16}$ " steel plate	Sill 16"	12" board door permanently hinged
" " " 12 aft Pump Room:	handles operated both sides			
" " " 12 aft Pump Room:	4' x 3' x 6' high	$\frac{5}{16}$ " steel plate	Sill 15"	12" board door permanently hinged
" " " 12 aft Pump Room:	handles operated both sides			
" " " 12 aft Pump Room:	4' x 3' x 6' high	$\frac{5}{16}$ " steel plate	Sill 15"	12" board door permanently hinged
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" " " 12 aft Pump Room:	handles operated both sides			

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

[illegible]

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

Finchback land	1	45	x	12	45	25	in	for sale
Finchback "	1	45	x	12	45	25	in	for sale
Rft Bft.	1	45	x	12	45	25	in	for sale
Rft Bft. land	1	45	x	12	45	25	in	for sale

wood  
hangings. Yeawas covers provided

Particulars of Gangway Cargo and Coaling Ports :—



Prestol

Particulars of Scuppers and Sanitary Discharge Pipes:—

all scuppers & side pipes discharging below gunboard deck have 2" structural on ship's side.

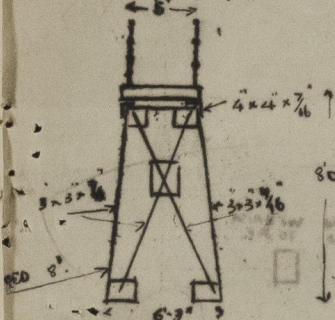
Particulars of Side Scuttles:—

all scuttles on gunboard deck & below have hinged deadlights fitted.

Particulars of Guard Rails:—

in fore & poop, 2'6" high stanchions spaced 4'6". Three runs on beams.  
in 2nd & 3rd gangways

Particulars of Gangways, Lifelines, etc.:—



2 gangways fitted in each well.

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 ...	54.5' <del>54.0'</del>	3'9"	5'-8" x 2'-0" @ 1' 5'-4" x 2'-0" @ 1' 3' x 0'-6" @ 1'	36	51.1	51.1
Forward Well ...	67.7' <del>74.8'</del>	3'9" x 1'0" side	5'-0" x 2'-0" @ 2' 2'-6" x 2'-0" @ 1' 4'-0" x 2'-0" @ 1' 4'-0" x 2'-0" @ 1' 5'-0" x 2'-0" @ 2'	38	147.70	63.48

State position of each freeing port ... After Well: From Bridge Deck 6'-7" to 9'-7" 12" above deck edge  
(F. and A. position and height above deck edge) Forward Well: 6'-0" to 4'-25" 12" above deck edge  
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— BARS. 2 @ 4'-0" x 2'-0"  
Starboard 5 @ 5'-0" x 2'-0"  
Side 1 @ 2'-0" x 2'-0"

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	5/8"	7/16"	5" x 3" x 3/8"	30"				8'-0"
Raised Quarter Deck Bulkhead								2'-0"
Bridge, After Bulkhead	5/8"	5/8"	4" x 3" x 3/8"	30"		5'-0" x 2'-6" BUT WINGED STEEL BARS	18"	8'-0"
Bridge, Forward Bulkhead	3/8"	3/8"	7" x 3" x 7/16" BA	26"	BKTS.			8'-0"
Forecastle Bulkhead	Open							
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks								
Exposed Machinery Casings on Superstructure Decks	✓	1/4"	3" x 2 1/2" x 5/16"	30"	BKTS.			2'-0"
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	No openings
Raised Quarter Deck Bulkhead	
Bridge, After Bulkhead	HT steel doors. permanently latched. handles operated both sides & 1/2" change lock.
Bridge, Forward Bulkhead	No opening
Forecastle Bulkhead	Open
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	
Exposed Machinery Casings on Superstructure Decks	are.
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	
Deckhouses on Flush Deck Ships	

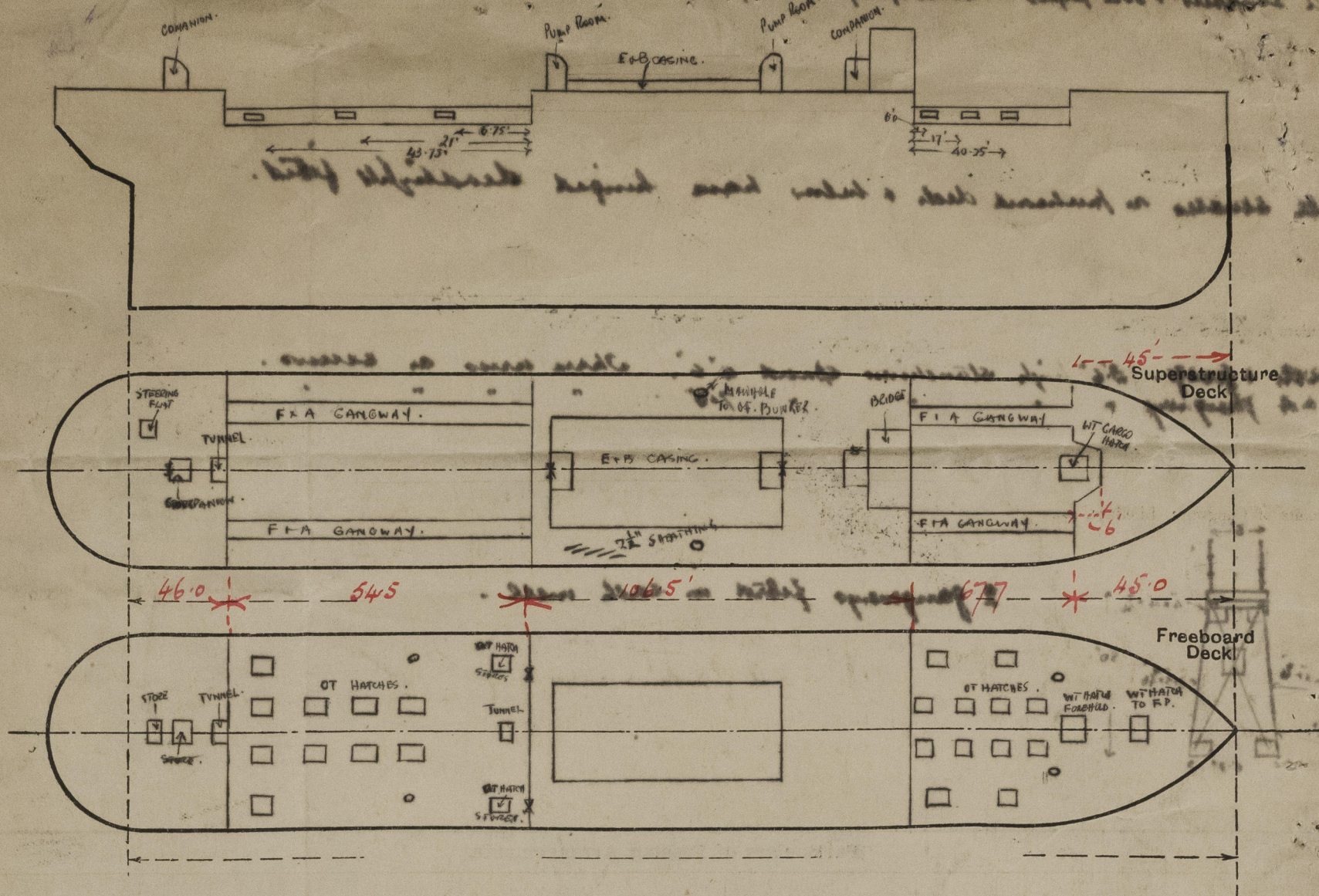


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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



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

*Visual measured in dry dock whilst undergoing docking survey.*

Builder's name and yard number

Names of sister ships

Owners

*The Admiralty*

Fee £

Received by me

*Supplies 11/-*

*1/2 from London 3/9/32*



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