

Regent Lion 34833

Rpt. C.11 (Comp.).

Index. No. 35255
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name REGENT PANTHER SH 1523	Official Number 165465	Nationality and Port of Registry British London	Gross Tonnage 9556	Date of Build 1937	Port of Survey Newcastle on Tyne
Moulded Dimensions: Length 485' Breadth 66.29' Depth 35.0'					Date of Survey 28th April 1937
Moulded displacement at moulded draught = 85 per cent. of moulded depth 21,160 tons					Surveyor's Signature H. J. A. Kester
Coefficient of fineness for use with Tables .774					Particulars of Classification Contemplated + 100 A1 Carrying petroleum in bulk.

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 35.0	(a) Where D is greater than Table depth (D - Table depth) R = $(35.07 - 32.33) \times 3 = + 8.22''$	Moulded Breadth (B) 66.29'
Stringer plate81	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 2.74	Standard Round of Beam = $\frac{B \times 12}{50} = 15.91''$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 16.2
Depth for Freeboard (D) = 35.07		Difference .59''
		Restricted to
		Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.59}{4} \times .5532 = -.08''$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	109.0	109.00	7.5'		109.00
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...	44.17				
Bridge enclosed ...	37.5	44.17	7.5'		44.17
„ overhang aft ...	47.5				
„ overhang forward ...					
Fore enclosed ...	63.5	63.50	7.5'		63.50
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...	216.17	216.17			216.17

Standard Height of Superstructure **7.5'**

„ „ R.Q.D. **7.5'**

Deduction for complete superstructure **42''**

Percentage covered $\frac{S}{L} = 44.68$

„ „ $\frac{S_1}{L} = 44.68$

„ „ $\frac{E}{L} = 44.68$

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. **TANKER 35.68**
(corrected for absence of forecastle (if required))

Interpolation for bridge less than .2L (if required)

Deduction = $42 \times .3568 = -14.98''$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	58.50	1		58.50	61.37	61.37	1		61.37
1/4 L from A.P. ...	26.03	4		104.12	27.75	27.75	4		111.00
1/2 L „ ...	6.435	2		12.87	6.875	6.875	2		13.75
Amidships ...		4					4		
3/4 L from F.P. ...	12.87	2		25.74	13.25	13.25	2		26.50
1/4 L „ ...	52.06	4		208.24	53.75	53.75	4		215.00
F.P. ...	117.00	1		117.00	118.5	118.50	1		118.50
Total ...				526.47					546.12

Mean actual sheer aft = **Excess**

Mean standard sheer aft

Mean actual sheer forward = **Excess**

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **1**

„ „ aft of „ = **1**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{19.65}{18} \left(.75 - \frac{.2234}{2} \right) = -.57''$

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 Flush Deck (if required)	83.90
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line 28-394	Correction for coefficient $\frac{.774 + .68}{1.36} = \frac{1.454}{1.36}$	89.70
Depth to Freeboard Deck = 35.07	$\Delta = 20.000$	Depth Correction ... 8.22	
Summer freeboard = 6.85	Tons per inch immersion at summer load water line	Deduction for superstructures ... 14.98	
Moulded draught (d) = 28.22	T = 65.2	Sheer correction57	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 7.05	Deduction = $\frac{\Delta}{40 T}$ inches = 7.67	Round of Beam correction08	
Addition for Winter North Atlantic Freeboard (if required) = 7.05 + 4.85 = 11.90	= 7 3/4''	Correction for Thickness of Deck amidships ...	
		Other corrections, scantlings, etc. ...	
		8.22 15.63 - 7.41	
		Summer Freeboard = 82.29	

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

Tropical Fresh Water Line above Centre of Disc ...	14 3/4"	Tropical Fresh Water Freeboard ...	5 7 1/2"
Fresh Water Line „ „ ...	7 3/4"	Fresh Water „ „ ...	2 1/2"
Tropical Line „ „ ...	7"	Tropical „ „ ...	3 1/4"
Winter Line below „ „ ...	7"	Winter „ „ ...	5 1/4"
Winter North Atlantic Line „ „ ...	12"	Winter North Atlantic „ „ ...	10 1/4"

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made,
the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____



© 2020

Lloyd's Register
Foundation