

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAMERS.

Port of Survey
Date of Survey **29/9/20**
Name of Surveyor

Ship's Name **Cheyenne**
Port of Registry and Nationality
Official Number
Gross Tonnage
Date of Build
Particulars of Classification **100A1 carrying petroleum in bulk (contemplated)**

Moulded dimensions **470.0 x 63.5 x 34.75**
Moulded displacement at a moulded draught of 85 per cent. of moulded depth **19730**
Coefficient of fineness for use with tables **783**

DEPTH FOR FREEBOARD.

Moulded depth ... **34.75**
Stringer plate ... **.08**
Sheathing in wells $T \left(\frac{L-S}{L} \right) =$...
Depth **D = 34.83**

CORRECTION FOR LENGTH.

(a) When **D** is greater than $\frac{L}{15}$ **34.83**
 $\left(D - \frac{L}{15} \right) \times R = 3.50 \times 3 = +10.50$
(b) When **D** is less than $\frac{L}{15}$ (if allowed).
 $\left(\frac{L}{15} - D \right) \times R =$
If restricted by height of superstructures

SUPERSTRUCTURES.

	Mean Covered Length S.	Equivalent Enclosed Length S ₁	Height.	Correction for Height.	Effective Length.
Poep enclosed Class II ...	104.50	104.50	7.75	-	104.50
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...	29.66	29.66	7.75	-	29.66
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	40.50	40.50	7.75	-	40.50
" overhang ...					
Trunks forward ...					
" aft ...					
Tonnage opening ...					

TOTAL = **174.66** **174.66** **174.66**
Length of ship (L) = **470** **470** **470**
% Covered ... = **37.15** **37.15** **37.15**
Corresponding %, corrected for absence of forecastle if required **A = 28.15** **B =**
Allowance ... = **42** **x .2815** = **- 11.82**

Correction for Bridge less than $\frac{2L}{3}$ if required **Tankers: does not apply.**

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	70.0	57.0		1	70.0
2	39.0			4	156.0
3	17.35			2	34.7
4	4.35		Actual	4	17.4
5				2	32.8
6	8.20			4	65.7
7	32.85			2	296.0
F.P. 1	74.0	114.0		4	132.0
2	132.0			1	

Mean effective sheer ... = **33.52**
Standard sheer $\frac{.05L}{5} =$... = **28.50**
Difference (Df) ... = **5.02**
Allowance = $Df \times \left(\frac{.75 - S}{2L} \right) = 5.02 \times \left(\frac{.75 - .185}{56.5} \right) = -2.84$
If limited on account of amidship superstructure ... =
If limited on account of excess sheer ($\frac{1}{2}$ in. per 100 ft.) ... =

If excess sheer forward and deficient sheer aft:—

Actual sheer aft =
Standard sheer aft =
Actual sheer forward =
Standard sheer forward =

Length of enclosed superstructure **L**

Forward of amidships =
Aft of amidships =

ROUND OF BEAM.

Standard ... **15.24**
Ship ... **16.00**
Difference ... **.76**
Restricted to ...
Allowance = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S}{L} \right) = \frac{.76}{4} \times .628 = -.12$

TABULAR FREEBOARD (corrected for flush deck if required)

Corrected for Coefficient $\frac{.783 + .68}{1.36} =$ **80.20**
86.28
Correction for Length ... **10.50**
Superstructures ... **11.82**
Sheer ... **2.84**
Round of beam ... **.12**
Thickness of deck ...
Scantlings, etc. ...
Statutory deck line ...
Summer Freeboard = **82.00**

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck:—

Fresh Water Line above centre of Disc ...
Indian Summer Line " " ...
Winter Line below " " ...
Winter North Atlantic Line " " ...



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