

MAY 9 1939.

Rpt. C.11 (Comp.).

CORILLA 35903
CERONIA 35961

Index. No.

35994

(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR ~~STEAMER~~, ~~SAILING SHIP~~, TANKER.)

Ship's Name M.T. CISTULA	Official Number ✓	Nationality and Port of Registry Dutch Gravenhage	Gross Tonnage 8096.63	Date of Build 1938/ 1939	Port of Survey Rotterdam
Moulded Dimensions: Length 140.511 M Breadth 17.983 M Depth 10.363 M					Date of Survey Building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 17620 M³ tons					Surveyor's Signature J. v. Heuvelen
Coefficient of fineness for use with Tables 792					Particulars of Classification + 100 A1 carrying petroleum in bulk contemporary.

Depth for Freeboard (D). Moulded depth 10363 Stringer plate 23 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 10386	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = $8.33(10.386 - 9.368)30 = +254 \text{ mm}$ (b) Where D is less than Table depth (if allowed) (Table depth - D) R = If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) 17983 Standard Round of Beam = $\frac{B \times 12}{50} =$ 360 Ship's Round of Beam = 360 Difference nil Restricted to Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$ nil
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height mm	Height Correction	Effective Length (E)
Poop enclosed (EQUIVALENT)	29.373				
% overhang ...	28640	29.373	2286		29.373
R.Q.D. enclosed					
„ overhang					
Bridge enclosed (EQUIVALENT)	14.350				
% overhang aft ...	13540	14.350	2286	2286	14.325
„ overhang forward	1050	787		do.	786
File enclosed					
% overhang	14632	14.632	2286	2286	14.606
Trunk aft					
„ forward					
Tonnage opening aft					
„ forward					
Total	59.405	59.142			59.090

Standard Height of Superstructure **2290 mm**

„ „ R.Q.D. ✓

Deduction for complete superstructure **1067 mm**

Percentage covered $\frac{S}{L} =$ **42.27** ✓

„ „ $\frac{S_1}{L} =$ **42.09** ✓

„ „ $\frac{E}{L} =$ **42.05** ✓

Percentage from Table, Line A. TANKER **33.05**
(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 = $1067 \times 33.05 = -353 \text{ mm}$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	1425	1	1425	1423	1423	1	1423
1/4 L from A.P. ...	633	4	2532	632	632	4	2528
3/4 L „ ...	158	2	316	156	156	2	312
Amidships ...		4				4	
3/4 L from F.P. ...	316	2	632	311	311	2	622
1/4 L „ ...	1266	4	5064	1266	1266	4	5064
F.P. ...	2849	1	2849	2846	2846	1	2846
Total			12818				12795

Mean actual sheer aft = **Deficient**
 Mean standard sheer aft

Mean actual sheer forward = **Deficient**
 Mean standard sheer forward

Length of enclosed superstructure forward of amidships =
 L aft of „ = } **Tanker**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(-75 - \frac{S}{2L} \right) = \frac{23}{18} \left(-75 - \frac{2113}{2113} \right) = +1 \text{ mm}$
 If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

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

Depth to Freeboard Deck = **10.386**
 Summer freeboard = **2.040**
 Moulded draught (d) = **8.346**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48} \text{ inches} = 174 \text{ mm} = 17 \text{ cms}$

Addition for Winter North Atlantic Freeboard (if required) = $174 + 115 = 289 \text{ mm} = 29 \text{ cms}$

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 16694 \text{ m}^3$
 Tons per inch immersion at summer load water line
 $T = 22.23$

Deduction = $\frac{\Delta}{40 T} \text{ inches} = 188 \text{ mm} = 19 \text{ cms}$

TABULAR FREEBOARD corrected for Flush Deck (if required)
 Correction for coefficient $\frac{792 + 68}{1.36} = 1.472$

Depth Correction **254**
 Deduction for superstructures **- 353**
 Sheer correction **1**
 Round of Beam correction **-**
 Correction for Thickness of Deck amidships **-**
 Other corrections, scantlings, etc. **-**

+	-
254	-
-	353
1	-
-	-
-	-
-	-
255	353

Summer Freeboard = **2044**

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

Tropical Fresh Water Line above Centre of Disc ... **36 cms.**
 Fresh Water Line „ „ ... **19**
 Tropical Line „ „ ... **17**
 Winter Line below „ „ ... **17**
 Winter North Atlantic Line „ „ ... **29**

Tropical Fresh Water Freeboard ... **204 cms.**
 Fresh Water „ „ ... **185**
 Tropical „ „ ... **187**
 Winter „ „ ... **221**
 Winter North Atlantic „ „ ... **233**

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 *Ocean Trade.*

Names of sister ships *ms Corilla yard N. 664 ms Peronia yard N. 665*

Builder's name and yard number *Wilton Tyneona yard N. 666*

Owners *Petroleum Maatschappij La Corona.*

Fee *f* *220.00*

M/V Cistula



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Foundation