

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAMERS.

Index No. 33322
(For London Office only.)

Port of Survey

Date of Survey 5/1/31

Name of Surveyor

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
m.v. <i>Casse Maersk</i>	<i>Danish</i>			1930	100 A1 <i>Carrying Petroleum in Bulk</i>
Number in Register Book					

Moulded dimensions 406.6 x 54.5 x 32.25

Moulded displacement at a moulded draught of 85 per cent. of moulded depth

Coefficient of fineness for use with tables

13575

13575 x 35

782

406.6 x 54.5 x 32.25 x 85

DEPTH FOR FREEBOARD.

Moulded depth	...	...	...	...	...	32.25
Stringer plate	...	...	...	...	...	.06
Sheathing in wells $T \left(\frac{L-S}{L} \right) =$	...	...	...	...	...
Depth D =	...	...	...	...	...	32.31

CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$	
$\left(D - \frac{L}{15} \right) \times R = (32.31 - 27.11) \times 3 = + 15.60$	
(b) When D is less than $\frac{L}{15}$ (if allowed).	5.20
$\left(\frac{L}{15} - D \right) \times R = \dots$	
If restricted by height of superstructures	...

SUPERSTRUCTURES.

	Mean Covered Length S.	Equivalent Enclosed Length S ₁ .	7.50 Height.	Correction for Height.	Effective Length.
Poop enclosed	95.78	95.78	7.66	✓	95.78
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	36.91 x 90%	33.22	7.5	✓	33.22
" overhang aft					
" overhang forward					
F'cle enclosed	37.02	27.02	7.5		37.02
" overhang					
Trunks forward		30.32	4.92	4.92/7.50	19.89
" aft		41.37	4.92	4.92/7.50	27.14
Tonnage opening					

TOTAL =

Length of ship (L) =

% Covered ... =

Corresponding %, corrected for absence of forecastle if required A =

Allowance ... =

169.71 237.71

406.6 406.6

41.8 58.47

Junker. B = 43.09

42.00 x .4309 =

213.05

406.6

51.9

Correction for Bridge less than 2L if required

- 18.10

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	48.00	50.66	48.00	1	48.00
2	21.13	22.51	21.13	4	84.52
3			5.27	2	10.54
4				4	
5			10.39	2	20.78
6	41.67	45.02	41.67	4	166.68
F.P. 7	96.75	101.32	96.75	1	96.75

Mean effective sheer ...

Standard sheer .05L + 5 =

Difference (Df) ...

Allowance = $Df \times \left(\frac{75 - S}{2L} \right) = 1.59 \times (175 - 209)$

If limited on account of amidship superstructure

If limited on account of excess sheer (1½ in. per 100 ft.)

18) 427.27

= 23.74

= 25.33

= deficient 1.59

= + .86

= Junker

If excess sheer forward and deficient sheer aft :-

Actual sheer aft = Deficient

Actual sheer forward = Deficient

Length of enclosed superstructure

L

Forward of amidships = } Junker

Aft of amidships = }

ROUND OF BEAM.

Standard	...	...	...	...	13.08
Ship	...	...	...	...	13.50
Difference	...	...	...	...	excess .42
Restricted to	...	...	...	...
Allowance = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S}{L} \right) = 105 \times (1 - .58) = .04$					

TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient 782 $\frac{+ .68}{1.36} = 1.462$

Correction for Length ...

" Superstructures ...

" Sheer ...

" Round of beam ...

" Thickness of deck ...

" Scantlings, etc. ...

" Statutory deck line ...

+	-
15.60	-
-	18.10
.86	.04
-	-
-	-
16.46	18.14

Summer Freeboard =

64.08

68.90

- 1.68

67.22

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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Lloyd's Register Foundation

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