

## Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD-STEAMERS.

Index No. 32715.  
(For London Office only.)Port of Survey  
Date of Survey 15-10-30.  
Name of Surveyor

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
APURE	NEWCASTLE U.K.			1928.	100-A1 CARRYING PETROLEUM IN BULK.
Number in Register Book					

Moulded dimensions 325.0 × 55.0 × 16.50.

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

Coefficient of fineness for use with tables

## DEPTH FOR FREEBOARD.

Moulded depth	...	...	...	...	...	16.50.
Stringer plate	...	...	...	...	...	.04.
Sheathing in wells $T \left( \frac{L-S}{L} \right) =$	...	...	...	...	...	
Depth D =	...	...	...	...	...	16.54.

## CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$	
$(D - \frac{L}{15}) \times R =$	...
(b) When D is less than $\frac{L}{15}$ (if allowed).	
$(\frac{L}{15} - D) \times R =$	$(\frac{21.67 - 16.54}{15}) \times 2.5 = -12.83.$
If restricted by height of superstructures	...

## SUPERSTRUCTURES.

	Mean Covered Length S.	Equivalent Enclosed Length S <sub>1</sub> .	Height.	Correction for Height.	Effective Length.
Poop enclosed	80.17	80.17	8'-0"	✓	80.17
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed	39.33	39.33	8'-0'	✓	39.33
" overhang					
Trunks forward	108.70	108.70	8'-0'	✓	108.70
" aft					
Tonnage opening					

SEE "CATATUMBO" FOR  
SKETCH OF ERECTIONS.

TOTAL =	228.20	228.20	228.20
Length of ship (L) =	325.0	325.0	325.0
% Covered ... =	70.22%	70.22%	70.22%
Corresponding %, corrected for absence of forecastle if required $K =$		63.29%	Correction for Bridge less than $\frac{1}{2}L$ if required $\} \text{Tanker.}$
Allowance ... =	37.00	× .6329	= -23.42

## SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	30.00	42.50	30.00	1	30.00
2	6.50		6.50	4	26.00
3				2	
4				2	
5				4	
6				2	
F.P. 7	7.00		7.00	1	28.00
	54.00	85.00	54.00		54.00

If excess sheer forward and deficient sheer aft :-

Actual sheer aft = defective  
Standard sheer aft  
Actual sheer forward = defective  
Standard sheer forwardLength of enclosed superstructure  
LForward of amidships = } Tanker.  
Aft of amidships = }

Mean effective sheer ...	...	...	...	...	...	24.48	138.00
Standard sheer $.05L + 5 =$	...	...	...	...	...		5.75
Difference (Df)	...	...	...	...	...		21.25
Allowance = $Df \times \left( \frac{.75 - \frac{S}{L}}{2} \right) = 15.50 \times .3989$	...	...	...	...	...		15.50
If limited on account of amidship superstructure	...	...	...	...	...		+6.18
If limited on account of excess sheer ( $1\frac{1}{2}$ in. per 100 ft.)	...	...	...	...	...		

## ROUND OF BEAM.

Standard	...	...	...	...	...	13.20
Ship	...	...	...	...	...	13.75
Difference	...	...	...	...	...	.55
Restricted to	...	...	...	...	...	
Allowance = $\frac{\text{Difference}}{4} \times \left( 1 - \frac{S}{L} \right) = \frac{.55}{4} \times .2978 = .041$	...	...	...	...	...	

## TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient  $\frac{.85 + .68}{1.36} = 1.125 \times 46.10 = 51.86$ 

	+	-
Correction for Length	-	12.83
" Superstructures	-	23.42
" Sheer	6.18	
" Round of beam	-	.04
" Thickness of deck	-	
" Scantlings, etc.	-	
" Statutory deck line	-	
	6.18	36.29

Summer Freeboard = 21.75

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

Fresh Water Line	above centre of Disc	...	...	...	1'-9 $\frac{3}{4}$ "
Indian Summer Line	"	...	...	...	2'-7 $\frac{1}{2}$ "
Winter Line	below	...	...	...	
Winter North Atlantic Line	"	...	...	...	

1906 Flaw { S = 2'-4 $\frac{1}{4}$ "  
W = 2'-6 $\frac{1}{2}$ "Diff from 1906 { S = 2'-6 $\frac{1}{2}$ "  
W = 5"

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