Estimate only

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No.
(For London Office only).

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
Fulmes 387/8				

Port of Survey

Date of Survey 1-7-44

Moulded Dimensions: Length 535·7 Breadth 74 Depth 49·0 (upper (?))

Surveyor's Signature

Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons

Coefficient of fineness for use with Tables ·847 (assumed)

Particulars of Classification 100 A1 carry(?) Oil carrying petroleum in bulk

---

Depth for Freeboard (D).

Moulded depth ... ... 49·00

Stringer plate ... ... ·04

Sheathing on exposed deck
$T\left(\dfrac{L-S}{L}\right)=$

Depth for Freeboard (D) = 49·04

Depth correction.

(a) Where D is greater than Table depth
(D − Table depth) R =
$\dfrac{(49·04 - 35·71) \times 3}{13·33} = +39·99$

(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) 74

Standard Round of Beam = $\dfrac{B \times 12}{50}$ = 17.70

Ship's Round of Beam =

Difference assumed nil 17.70

Restricted to

Correction = $\dfrac{\text{Diff}^{\circ}}{4} \times \left(1-\dfrac{S_1}{L}\right)$ = $\dfrac{17.76}{4} \times ·0168 = +·07$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
„ overhang... ...					
R.Q.D. enclosed					
„ overhang ...					
Bridge enclosed... ...					
„ overhang aft ...					
„ overhang forward					
F'cle enclosed	526·7	526·7			526·7
„ overhang					
Trunk aft					
„ forward... ...					
Tonnage opening aft ...					
„ „ forward					
Total	526·7	526·7			526·7

Standard Height of Superstructure 7·5

„ „ R.Q.D. ...

Deduction for complete superstructure 42

Percentage covered $\dfrac{S}{L}=$

„ „ $\dfrac{S_1}{L}=$ } 98·32

„ „ $\dfrac{E}{L}=$

Percentage from Table, Line A. 97·93
(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 = $42 \times ·9793 = -41·13$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	63·57	1				1	
⅙L from A.P. ...		4				4	
⅔L „ ...		2				2	
Amidships ...		4		Nil		4	
⅔L from F.P. ...		2				2	
⅙L „ ...		4				4	
F.P.		1				1	
Total ...			572·13				

Mean actual sheer aft / Mean standard sheer aft = } Deficient

Mean actual sheer forward / Mean standard sheer forward = } Deficient

Length of enclosed superstructure / L forward of amidships =

„ „ „ aft of „ =

Correction = $\dfrac{\text{Difference between sums of products}}{18}\left(·75 - \dfrac{S}{2L}\right)$ = $\dfrac{572·13}{18}\left(·75 - \dfrac{·4916}{·8584}\right) = +8·21$
If limited on account of midship superstructure. If limited to maximum allowance of 1½ ins. per 100 ft.

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

Ft.

Depth to Freeboard Deck = 49·04

Summer freeboard = 11·12

Moulded draught (d) = 37·92

Deduction for Tropical freeboard and addition for Winter freeboard = $\dfrac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required)=

Deduction for Fresh Water.

Displacement in salt water at summer load water line
$\Delta =$

Tons per inch immersion at summer load water line
$T =$

Deduction = $\dfrac{\Delta}{40 T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required)   112·51

Correction for coefficient $\dfrac{·847 + ·68}{1·36} = \dfrac{1·527}{1·36}$ 126·32

	+	−
Depth Correction ...	39·99	−
Deduction for superstructures ...	−	41·13
Sheer correction	8·21	
Round of Beam correction...	·07	
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc. ...		
	48·27	41·13	+ 7·14

Summer Freeboard = 133·46

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

11·12 Feet

Tropical Fresh Water Line above Centre of Disc		Tropical Fresh Water Freeboard		
Fresh Water Line „ „		Fresh Water ...		
Tropical Line „ „		Tropical ...		
Winter Line below „ „		Winter ...		
Winter North Atlantic Line „ „		Winter North Atlantic ...		