

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>PETER JOLIFFE</b>	Official Number <b>167661</b>	Nationality and Port of Registry <b>British Poole</b>	Gross Tonnage <b>81</b>	Date of Build <b>1940</b>	Port of Survey <b>Bristol</b>
Moulded Dimensions: Length <b>74'-0"</b> Breadth <b>19'-0"</b> Depth <b>9'-0"</b> <b>175</b>					Date of Survey <b>16-1-40 &amp; 1-4-40</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature <b>J. Brooke Smith</b>
Coefficient of fineness for use with Tables <b>.68 .62 (.569 actual)</b>					Particulars of Classification <b>+100A1 for towing services.</b>

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... <b>9.00</b>	(a) Where D is greater than Table depth (D - Table depth) R = <b>(9.00 - 4.93) <math>\frac{74}{130}</math> = 2.32</b>	Moulded Breadth (B) <b>19'-0"</b>
Stringer plate ... <b>.03</b>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = <b>✓</b>	Standard Round of Beam = $\frac{B \times 12}{50}$ = <b>4.56</b>
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) = \frac{24}{74} \times 17$ <b>.06</b>	If restricted by superstructures <b>✓</b>	Ship's Round of Beam = <b>5'-</b>
Depth for Freeboard (D) = <b>9.03</b>		Difference <b>.44</b>
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right)$ = $\frac{.44}{4} \times 1.0 = .11$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ...						Standard Height of Superstructure
" overhang ...						" " R.Q.D.
R.Q.D. enclosed ...						Deduction for complete superstructure
" overhang ...						Percentage covered $\frac{S}{L}$ =
Bridge enclosed ...						" " $\frac{S_1}{L}$ =
" overhang aft ...						" " $\frac{E}{L}$ =
" overhang forward ...						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
Trunk aft ...						Percentage from Table, Line B. (corrected for absence of forecastle (if required))
" forward ...						Interpolation for bridge less than .2L (if required)
Tonnage opening aft ...						Deduction =
" " forward						
Total ...						

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	17.40	1		17.40	8.45	8.45	1		8.45
$\frac{1}{2}$ L from A.P. ...	7.74	4		30.96	4.50	4.50	4		18.00
$\frac{3}{8}$ L " ...	1.96	2		3.82	5.62	5.62	2		1.00
Amidships ...	-	4		-	-	-	4		-
$\frac{3}{8}$ L from F.P. ...	3.83	2		7.66	4.125	3.84	2		7.68
$\frac{1}{2}$ L " ...	15.49	4		61.96	19.625	15.64	4		62.56
F.P. ...	34.80	1		34.80	43.375	35.21	1		35.21
Total ...				156.60					131.39

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - S}{2L} \right) = \frac{25.21}{18} \times .75 = +1.05$

If limited on account of midship superstructure. **✓**

Mean actual sheer aft = **Deficient = .542 - .501**

Mean standard sheer aft

Mean actual sheer forward = **Excess**

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **0. Deficient Sheer.**

Aft Sheer Standard

Actual

Mean actual sheer aft = **Deficient = .542 - .501**

Mean standard sheer aft

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft. **✓**

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **9.03**

Summer freeboard = **.92**

Moulded draught (d) = **8.11**

## Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = **2.03 = 2"**

Addition for Winter North Atlantic Freeboard (if required) = **✓**

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta$  = **195 tons**

Tons per inch immersion at summer load water line

T = **2.76**

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

$\frac{\Delta}{40T}$  = **2.03 = 2"**

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

	+	-
Depth Correction	2.37	-
Deduction for superstructures	1.05	-
Sheer correction	.97	-
Round of Beam correction	-	.40
Correction for Thickness of Deck amidships	-	.72
Other corrections, scantlings, etc.	3.42	-
Summer Freeboard	8.73	+2.59

Summer Freeboard = **11.0340**

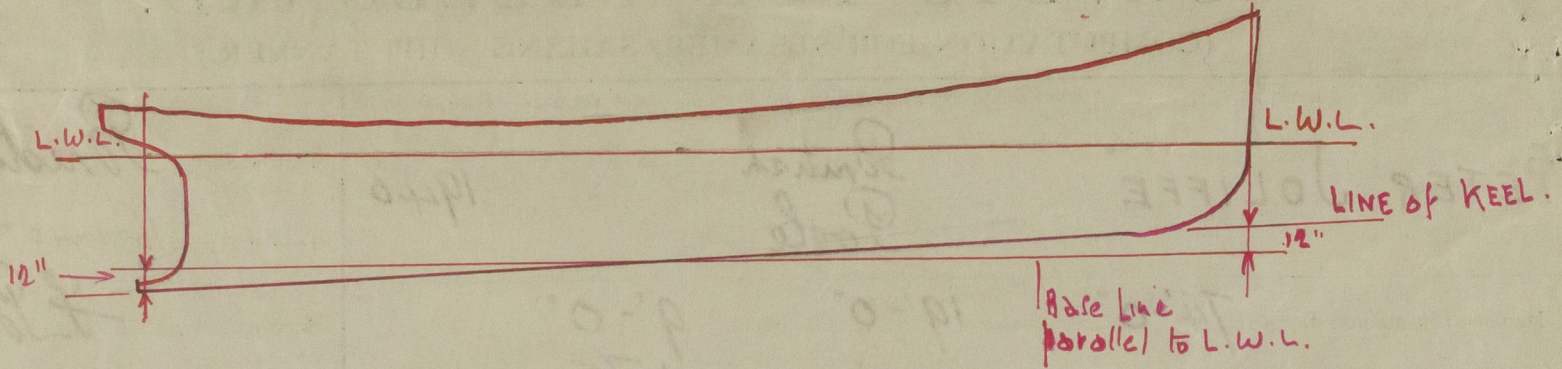
SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ...	✓	Tropical Fresh Water Freeboard ...	0'-11"
Fresh Water Line " " ...	2"	Fresh Water " " ...	0'-9"
Tropical Line " " ...	2"	Tropical " " ...	1'-
Winter Line below " " ...	2"	Winter " " ...	1'-
Winter North Atlantic Line " " ...	✓	Winter North Atlantic " " ...	1'-



*Peter Tolle*

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.

*For towing services.*

Names of sister ships.

☒

Builder's name and yard number.

*Wm. Hill & Sons Ltd. Yard No 277.*

Owners.

*Poole Harbour Commissioners.*

Fee £

*3-0-0*



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Foundation