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Rpt. C.11 (Comp.).

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OWNERS GET ISSUED

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
"POOLE RIVER"	183045	British London	1366	1949	Sunderland.
Moulded Dimensions: Length 224' 3" ✓ Breadth 35' 15" ✓ Depth 16-29 to Upper Deck ✓ 20-12 to R. Qtr Deck ✓					Date of Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth 2342 ✓ tons					Surveyor's Signature
Coefficient of fineness for use with Tables 140 738 ✓					Particulars of Classification
					+ 100 AI (Contemplated)

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 16.29	(a) Where D is greater than Table depth	Moulded Breadth (B) 35.15'
Stringer plate (-52") 04	(D - Table depth) R = 16.33 - 14.95 = 1.38	Standard Round of Beam = $\frac{B \times 12}{50} = 8.58$
Sheathing on exposed deck	(b) Where D is less than Table depth (if allowed)	Ship's Round of Beam = 9.00
$T \left(\frac{L-S}{L} \right) =$	(Table depth - D) R =	Difference + .42
Depth for Freeboard (D) = 16.33	If restricted by superstructures	Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.42}{4} \times .2619 = -.03$

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	↑		1.0		
" overhang ...			83		
R.Q.D. enclosed ...	142.09	142.09	3.84	✓	142.09
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed Equiv. ...	22.15	22.15	1.0		22.15
" overhang ...	1.89	1.35			1.35
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	166.13	165.59			165.59

DEDUCTION FOR SUPERSTRUCTURES.

Standard Height of Superstructure 6.00'

" " R.Q.D. 3.829'

Deduction for complete superstructure 28.43"

Percentage covered $\frac{S}{L} = 74.05$

" " $\frac{S_1}{L} = 73.81$

" " $\frac{E}{L} =$

Percentage from Table, Line A. 67.68
(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 = $28.43 \times .6768 = -19.24"$

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	32.43	1	32.43	32.5	32.50	1	32.50
$\frac{1}{2}$ L from A.P. ...	14.43	4	57.72	14.44	14.44	4	57.76
$\frac{2}{3}$ L „ ...	3.565	2	7.13	3.62	3.62	2	7.24
Amidships ...	/	4	/	✓	/	4	/
$\frac{2}{3}$ L from F.P. ...	7.135	2	14.27	7.25	7.25	2	14.50
$\frac{1}{2}$ L „ ...	28.87	4	115.48	29.00	29.00	4	116.00
F.P. ...	64.87	1	64.87	65.00	65.00	1	65.00
Total ...			291.90				293.00

Mean actual sheer aft
Mean standard sheer aft =

Mean actual sheer forward
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = 211 L
L

„ „ aft of „ = 5 L.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{1.10}{18} (.75 - .3702) = -.02$

If limited on account of midship superstructure. .3798

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 = <u>20.16</u> Summer freeboard = <u>4.81</u> Moulded draught (d) = <u>15.35</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>3.84 = 3 ³/₄</u> Addition for Winter North Atlantic Freeboard (if required) = <u>5 ³/₄</u>	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 2656 @ 15.6$ Tons per inch immersion at summer load water line T = <u>16.26</u> Deduction = $\frac{\Delta}{40 T}$ inches = <u>4.05</u> = <u>4</u>	TABULAR FREEBOARD corrected for Flush Deck (if required) $\frac{738 + 68}{1.36} = 1.418 / 1.36$ Correction for coefficient Depth Correction <u>2.38</u> Deduction for superstructures <u>19.24</u> Sheer correction <u>.02</u> Round of Beam correction <u>.03</u> Correction for Thickness of Deck amidships <u>45.96</u> Other corrections, scantlings, etc. <u>48.34</u> <u>19.29</u> + 29.05 Summer Freeboard = <u>57.64</u>
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel Deck :—		
Tropical Fresh Water Line above Centre of Disc	7 3/4"	Tropical Fresh Water Freeboard
Fresh Water Line " "	4 1/2"	Fresh Water " "
Tropical Line " "	3 3/4"	Tropical " "
Winter Line below " "	3 3/4"	Winter " "
Winter North Atlantic Line " "	3 3/4"	Winter North Atlantic " "

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.

FORECASTLE :-

$$L/10 = 22.434$$

Forward of $L/10$:-

Enclosed	=	21.00
$1.434 \times 11/26$	=	.61
		<hr/>
		21.61 = Equip. encl.
		.82 = O/H.

Aft of $L/10$:-

Enclosed	=	$1.318 \times 11/26$	=	.54
		<hr/>		
		26.75		
				O/H = 1.07

Enclosed forward of $L/10$	=	21.61	S.	21.61
" aft "	=	.54		.54
		<hr/>		<hr/>
		22.15		22.15
O/H forward of $L/10$	=	.82	x 1	.82
" aft "	=	1.07	x 1/2	.53
		<hr/>		<hr/>
		1.89		1.35

Trade of ship Collier

Names of sister ships "POOLE Quay"

Builder's name and yard number Wm Pickersgill & Sons Yard No 313.

Owners British Electricity Authority.

Fee £ will be charged on completion.

MLD



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