

# LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

## SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER)

Received .....

Index No. ....

Govt. Copy .....

Owners C11 .....

Ship's Name <b>AGHIOS SPYRIDON</b>	Official Number <b>160</b>	Nationality and Port of Registry <b>Costa-Rican Puerto-Limon</b>	Gross Tonnage <b>7214</b>	Date of Build <b>1944</b>	Port of Survey .....
Moulded Dimensions: Length ..... Breadth ..... Depth <b>37.33</b> Freeboard Length <b>417.35 to 4 ft of Rudder Stock</b> Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>16,600</b> tons (excluding bossing) Coefficient of fineness for use with Tables <b>.771</b>					Date of Survey <b>13-7-56</b>  Surveyor's Signature .....
					Particulars of Classification <b>+ 100A1 with freeboard</b>

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... .. <b>37.33</b> Stringer plate ... .. <b>.06</b> Wood Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <b>37.39</b>	(a) Where D is greater than Table depth (D-Table depth) R = $(37.39 - 27.82) 3 = +28.71$ $9.57$ (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures	Moulded Breadth (B) <b>56.9'</b> Standard Round of Beam = $\frac{B \times 12}{50} = 13.66$ Ship's Round of Beam = <b>14.00</b> Difference <b>.34</b> Restricted to Correction = $\frac{\text{Diff.}}{4} \times \left( 1 - \frac{S}{L} \right) = \frac{.34}{4} = -.09$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ... ..					
" overhang ... ..					
R.Q.D. enclosed ... ..					
" overhang ... ..					
Bridge enclosed ... ..					
" overhang aft ... ..					
" overhang forward ... ..					
Fore enclosed ... ..					
" overhang ... ..					
Trunk aft ... ..					
" forward ... ..					
Tonnage opening aft ... ..					
" " forward ... ..					
Total ... ..					

*Flush Deck*

Standard Height of Superstructure .....

" " R.Q.D. ....

Deduction for complete superstructure .....

Percentage covered  $\frac{S}{L} =$  } *Flush Dk.*

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

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

Percentage from Table, Line A.  
(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 = *Nil.*

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ... ..	<b>51.73</b>	1		<b>51.73</b>	<b>55.00</b>	<b>55.00</b>	1		<b>55.00</b>
$\frac{1}{8}L$ from A.P. ... ..	<b>23.02</b>	4		<b>92.08</b>	<b>23.25</b>	<b>23.25</b>	4		<b>93.00</b>
$\frac{2}{8}L$ " ... ..	<b>5.69</b>	2		<b>11.38</b>	<b>6.50</b>	<b>6.50</b>	2		<b>13.00</b>
Amidships ... ..	<b>0</b>	4		<b>0</b>	<b>0</b>	<b>0</b>	4		<b>0</b>
$\frac{3}{8}L$ from F.P. ... ..	<b>11.38</b>	2		<b>22.76</b>	<b>11.63</b>	<b>11.63</b>	2		<b>23.26</b>
$\frac{4}{8}L$ " ... ..	<b>46.04</b>	4		<b>184.16</b>	<b>46.75</b>	<b>46.75</b>	4		<b>187.00</b>
F.P. ... ..	<b>103.47</b>	1		<b>103.47</b>	<b>105.00</b>	<b>105.00</b>	1		<b>105.00</b>
Total ... ..									<b>476.26</b>

Mean actual sheer aft =  
Mean standard sheer aft = } *Excess*

Mean actual sheer forward =  
Mean standard sheer forward = }

Length of enclosed superstructure forward of amidships = *Flush Deck.*

" " aft of " =

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - \frac{S}{2L}}{.75} \right) = \frac{10.68(-.75)}{18} = -.45$   
 If limited on account of midship superstructure. *No - Flush Dk.*

If limited to maximum allowance of  $1\frac{1}{8}$  ins. per 100ft.

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b> Depth to Freeboard Deck = <b>37.39</b> Summer freeboard = <b>9.79</b> Moulded draught (d) = <b>27.60</b> Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for = Winter freeboard = $\frac{d}{4}$ inches = <b>6.90 = 7"</b> Addition for Winter North Atlantic Freeboard (if required) = <input checked="" type="checkbox"/>	<b>Deduction for Fresh Water.</b> Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line $T =$ Deduction = $\frac{\Delta}{40 T}$ inches = <b>7 1/4</b>	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) Correction for coefficient $\frac{.771 + .68}{1.36} = 1.451 / 1.36$ <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr><td>Depth Correction ... ..</td><td><b>28.71</b></td><td>-</td></tr> <tr><td>Deduction for superstructures ... ..</td><td>-</td><td>-</td></tr> <tr><td>Sheer correction ... ..</td><td>-</td><td><b>.45</b></td></tr> <tr><td>Round of Beam correction ... ..</td><td>-</td><td><b>.09</b></td></tr> <tr><td>Correction for Thickness of Deck amidships ... ..</td><td>-</td><td>-</td></tr> <tr><td>Other corrections, scantlings, etc. ... ..</td><td><b>.55</b></td><td>-</td></tr> <tr><td><b>27.7 1/4"</b></td><td><b>29.26</b></td><td><b>.54</b></td></tr> </tbody> </table> Summer Freeboard = <b>117.50"</b>		+	-	Depth Correction ... ..	<b>28.71</b>	-	Deduction for superstructures ... ..	-	-	Sheer correction ... ..	-	<b>.45</b>	Round of Beam correction ... ..	-	<b>.09</b>	Correction for Thickness of Deck amidships ... ..	-	-	Other corrections, scantlings, etc. ... ..	<b>.55</b>	-	<b>27.7 1/4"</b>	<b>29.26</b>	<b>.54</b>
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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 ... ..	<b>14 1/4</b>	Tropical Fresh Water Freeboard ... ..	<b>9'-9 1/2"</b>
Fresh Water Line " " ... ..	<b>7 1/4</b>	Fresh Water " " ... ..	<b>8'-7 1/4"</b>
Tropical Line " " ... ..	<b>7</b>	Tropical " " ... ..	<b>9'-2 1/4"</b>
Winter Line below " " ... ..	<b>7</b>	Winter " " ... ..	<b>9'-2 1/2"</b>
Winter North Atlantic Line " " ... ..	<b>7</b>	Winter North Atlantic " " ... ..	<b>10'-4 1/2"</b>