

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD-STEAMERS.

Index No. 2417  
(For London Office only.)Port of Survey NewcastleDate of Survey 21/1/31Name of Surveyor ✓

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
<u>BRITISH SAILOR</u>	<u>British</u>	<u>142422</u>	<u>✓</u>	<u>1918</u>	<u>+ 100 A1. Carrying Petroleum in Bulk</u>
Number in Register Book					

Moulded dimensions 399.6 × 52.0 × 31.0

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

Coefficient of fineness for use with tables 459 from British Soldier Rep no. 24131.

## DEPTH FOR FREEBOARD.

## CORRECTION FOR LENGTH.

Moulded depth	...	...	...	...	...	<u>31.0</u>
Stringer plate	...	...	...	...	...	<u>.04</u>
Sheathing in wells $T \left( \frac{L-S}{L} \right) =$	...	...	...	...	...	<u>-</u>
Depth <b>D</b> =	...	...	...	...	...	<u>31.04</u>

(a) When <b>D</b> is greater than $\frac{L}{15}$					
$\left( D - \frac{L}{15} \right) \times R =$	<u>(31.04 - 26.64) × 3</u>				<u>+ 13.20</u>
(b) When <b>D</b> is less than $\frac{L}{15}$ (if allowed).					
$\left( \frac{L}{15} - D \right) \times R =$	...	...	...	...	...
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	<u>49.42</u>	<u>49.42</u>	<u>4.25</u>	<u>49.42 × <math>\frac{4.25}{4.496}</math></u>	<u>44.80</u>
" overhang	...	...	...	...	...
R.Q.D. enclosed	...	...	...	...	...
" overhang	...	...	...	...	...
Bridge enclosed	<u>121.00</u>	<u>108.90</u>	<u>4.6</u>	<u>✓</u>	<u>108.90</u>
" overhang aft	...	...	...	...	...
" overhang forward	...	...	...	...	...
F'cle enclosed	<u>39.16</u>	<u>39.16</u>	<u>4.25</u>	<u>39.16 × <math>\frac{4.25}{4.496}</math></u>	<u>34.84</u>
" overhang	...	...	...	...	...
Trunks forward	<u>94.0 × <math>\frac{32}{32}</math></u>	<u>94.0 × <math>\frac{32}{32}</math></u>	<u>4.25</u>	<u>94.0 × <math>\frac{4.25}{4.496}</math></u>	<u>84.13</u>
" aft	<u>68.5 × <math>\frac{32}{32}</math></u>	<u>68.5 × <math>\frac{32}{32}</math></u>	<u>4.25</u>	<u>68.5 × <math>\frac{4.25}{4.496}</math></u>	<u>63.61</u>
Tonnage opening	...	...	...	...	...

TOTAL = 209.58 194.48 292.31Length of ship (**L**) = 399.6 399.6 399.6% Covered ... = 52.45 49.42 73.16Corresponding %, corrected for absence of forecastle if required } **A** = Lanker. **B** = 66.89 . Correction for Bridge less than  $\frac{1}{2}L$  if required } LankerAllowance ... = 41.94 × 66.89 = -28.04

## SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1		<u>49.96</u>	<u>45.0</u>	<u>1</u>	<u>45.0</u>
2			<u>8.5</u>	<u>4</u>	<u>34.0</u>
3			<u>0</u>	<u>2</u>	<u>0</u>
4			<u>0</u>	<u>4</u>	<u>0</u>
5			<u>0</u>	<u>2</u>	<u>0</u>
6			<u>15.0</u>	<u>4</u>	<u>60.0</u>
F.P. 7	<u>90.0</u>	<u>99.92</u>	<u>90.0</u>	<u>1</u>	<u>90.0</u>

If excess sheer forward and deficient sheer aft :—

Actual sheer aft = DeficientStandard sheer aft = Deficient

Length of enclosed superstructure

Forward of amidships = LankerAft of amidships = Lanker

Mean effective sheer ...	...	...	...	...	...	<u>12.42</u>
Standard sheer $.05L + 5 =$	...	...	...	...	...	<u>24.98</u>
Difference ( <b>Df</b> )	...	...	...	...	...	<u>12.26</u>
Allowance = $Df \times \left( .75 - \frac{S}{2L} \right) =$	<u>12.26 × (.75 - .2622)</u>	...	...	...	...	<u>+ 5.98</u>
If limited on account of amidship superstructure	...	...	...	...	...	<u>✓</u>
If limited on account of excess sheer ( $1\frac{1}{2}$ in. per 100 ft.)	...	...	...	...	...	<u>✓</u>

## ROUND OF BEAM.

Standard	...	...	...	...	...	<u>12.48</u>
...	...	...	...	...	...	<u>12.75</u>
ence	...	...	...	...	...	<u>.27</u>
ted to	...	...	...	...	...	...
nce = $\frac{\text{Difference}}{4} \times \left( 1 - \frac{S_1}{L} \right) =$	<u><math>\frac{.27}{4} \times 5058</math></u>	...	...	...	...	<u>- .03</u>

TABULAR FREEBOARD (corrected for flush deck if required) = 62.41Corrected for Coefficient 459 + .68 1.36 = 66.04

	+	-
Correction for Length	<u>13.20</u>	
" Superstructures		<u>28.04</u>
" Sheer	<u>5.98</u>	
" Round of beam		<u>.03</u>
" Thickness of deck		
" Scantlings, etc.		
" Statutory deck line		

Summer Freeboard = 54.12

EBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck :—

Fresh Water Line	above centre of Disc	...	...	...	...
Indian Summer Line	"	"	"	...	...
Winter Line	below	"	"	...	...
Winter North Atlantic Line	"	"	"	...	...

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