

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAMERS.

Index No. 29468
(For London Office only.)

Port of Survey Newcastle

Date of Survey 19/1/31

Name of Surveyor _____

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
<u>BRITISH PREMIER.</u>	<u>London</u>	<u>146684</u>	<u>-</u>	<u>1922</u>	<u>+ 100 A1 Carrying Petroleum in Bulk.</u>
Number in Register Book _____	<u>H.K.</u>				

Moulded dimensions 399.3 x 53.45 x 33.0

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

Coefficient of fineness for use with tables .485

DEPTH FOR FREEBOARD.

Moulded depth	...	...	...	...	...	<u>33.0</u>
Stringer plate	...	...	...	...	...	<u>.05</u>
Sheathing in wells $T \left(\frac{L-S}{L} \right) =$	...	...	...	...	...	<u>✓</u>
Depth D =	...	...	...	...	...	<u>33.05</u>

CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$	
$\left(D - \frac{L}{15} \right) \times R =$	$\left(33.05 - 26.62 \right) \times 3 = +19.29$
(b) When D 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 ₁ .	Height.	Correction for Height.	Effective Length.
Poop enclosed
" overhang
R.Q.D. enclosed
" overhang
Bridge enclosed
" overhang aft
" overhang forward
F'cle enclosed
" overhang
Trunks forward
" aft
Tonnage opening

TOTAL = 188.4 186.94 186.94

Length of ship (L) = 399.3 399.3 399.3

% Covered ... = 44.26 46.82 46.82

Corresponding %, corrected for absence of fore-castle if required } Lanker. B = 34.82 Correction for Bridge less than 2L if required } Lanker

Allowance ... = 41.95 x .3482 = -15.84

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	<u>51.0</u>	<u>49.93</u>	<u>51.0</u>	<u>1</u>	<u>51.0</u>
2			<u>22.51</u>	<u>4</u>	<u>90.04</u>
3			<u>5.63</u>	<u>2</u>	<u>11.06</u>
4			<u>12.15</u>	<u>2</u>	<u>24.30</u>
5			<u>48.61</u>	<u>4</u>	<u>194.44</u>
6					
F.P. 7	<u>109.5</u>	<u>99.86</u>	<u>109.5</u>	<u>1</u>	<u>109.5</u>

If excess sheer forward and deficient sheer aft :-

Actual sheer aft = Excess
Standard sheer aft

Actual sheer forward = Excess
Standard sheer forward

Length of enclosed superstructure

Forward of amidships = Lanker
Aft of amidships =

Mean effective sheer ... = 26.68
Standard sheer $.05L + 5 =$ 24.96
Difference (Df) = 1.72
Allowance = $Df \times \left(.75 - \frac{S}{2L} \right) = 1.72 \times \left(.75 - .2363 \right) = .88$
If limited on account of amidship superstructure ... = ✓
If limited on account of excess sheer ($1\frac{1}{2}$ in. per 100 ft.) ... = ✓

ROUND OF BEAM.

Standard	...	...	...	...	<u>12.90</u>
Ship	...	...	...	...	<u>13.25</u>
Difference	...	...	...	...	<u>.35</u>
Restricted to	...	...	...	...	...
Allowance = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S_1}{L} \right) =$	...	...	...	...	$\frac{.35}{4} \times .5318 = -.05$

TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient .485 $\frac{+.68}{1.36} = 1.044 =$ 62.34 64.16

	+	-
Correction for Length	<u>19.29</u>	
" Superstructures		<u>15.84</u>
" Sheer		<u>.88</u>
" Round of beam		<u>.05</u>
" Thickness of deck	<u>✓</u>	
" Scantlings, etc.	<u>✓</u>	
" Statutory deck line	<u>✓</u>	
	<u>19.29</u>	<u>16.80</u>

Summer Freeboard = 69.65

FREEBOARD 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	" " "	...

1906 6'-9 3/4" 4'-3 3/4" 69.65 6.81 46.46

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