

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD-STEAMERS.

Index No. 33115.

(For London Office only.)

Port of Survey

Date of Survey 4-12-30.

Name of Surveyor

Ship's Name.

ATHELTARN.

Port of Registry
and Nationality.

BRITISH.

Official
Number.Gross
Tonnage.

Date of Build.

1929

Particulars of Classification.

7100A.1. CARRYING PETROLEUM OR
MOLASSES IN BULK.

Moulded dimensions 220.0 x 36.0 x 14.0

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

2094 tons.

Coefficient of fineness for use with tables

.777

DEPTH FOR FREEBOARD.

Moulded depth	...	...	...	...	...	14.00
Stringer plate	...	...	...	...	...	.04
Sheathing in wells $T \left(\frac{L-S}{L} \right) =$	...	...	...	...	...	✓
Depth $D =$	...	...	...	...	...	14.04

CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$

$$\left(D - \frac{L}{15} \right) \times R = \dots$$

(b) When D is less than $\frac{L}{15}$ (if allowed).

$$\left(\frac{L}{15} - D \right) \times R = (14.67 - 14.04) \times 1.692 = -1.07$$

If restricted by height of superstructures

SUPERSTRUCTURES.

	Mean Covered Length S_1	Equivalent Enclosed Length S_2	Height.	Correction for Height.	Effective Length.
Poop enclosed	69.52	69.52	7'-6"	✓	69.52
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed OPEN...	21.50	10.75	7'-6"	✓	10.75
" overhang aft					
" overhang forward					
F'cle enclosed	40.51	40.51	7'-6"	✓	40.51
" overhang					
Trunks forward	13.47	13.47	7'-6"	✓	9.56
" aft	5.90	5.90	4'-3"	4'-3"	4.19
Tonnage opening	26.81	26.81	6'-0"	6'-0"	18.99

TOTAL =

Length of ship $(L) =$

% Covered ... =

Corresponding %, corrected for
absence of forecastle if required $A =$

Allowance ... =

177.71

220.0

75.89%

B = 70.25%

x .7025

153.52

220.0

75.89%

Correction for Bridge less
than $2L$ if required

= -19.67

See sketch on back

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	42.00	32.00	42.00	1	42.00
2	24.00		24.00	4	96.00
3			10.68	2	21.36
4			2.67	4	10.68
5			5.11	2	10.22
6			20.44	2	40.88
F.P. 7	46.00		46.00	4	184.00
8	81.00	64.00	81.00	1	81.00

If excess sheer forward and deficient sheer aft:—

Actual sheer aft
Standard sheer aft = excess.Actual sheer forward
Standard sheer forward = excess.

Length of enclosed superstructure

Forward of amidships = } Tanker.
Aft of amidships = }

Mean effective sheer	...	...	...	...	20.68
Standard sheer $.05L + 5 =$	...	...	...	...	16.00
Difference (Df)	...	...	...	...	4.68
Allowance = $Df \times \left(.75 - \frac{S}{2L} \right) = 4.68 \times .3461$	...	...	...	...	-1.62
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	...	...	...	...	8.64
Ship	...	...	...	...	8.75
Difference	...	...	...	...	.11
Restricted to	...	...	...	...
Allowance = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S}{L} \right) = \frac{.11}{4} \times .2411 = \text{NIL}$	...	...	...	...

TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient $.777 \times \frac{.68}{1.36} = 1.071$

	+	-
Correction for Length	-	1.07
" Superstructures	-	19.67
" Sheer	-	1.62
" Round of beam	-	-
" Thickness of deck	-	-
" Scantlings, etc.	-	-
" Statutory deck line	-	-

Summer Freeboard = 5.81

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	"	...

1904 FBDS

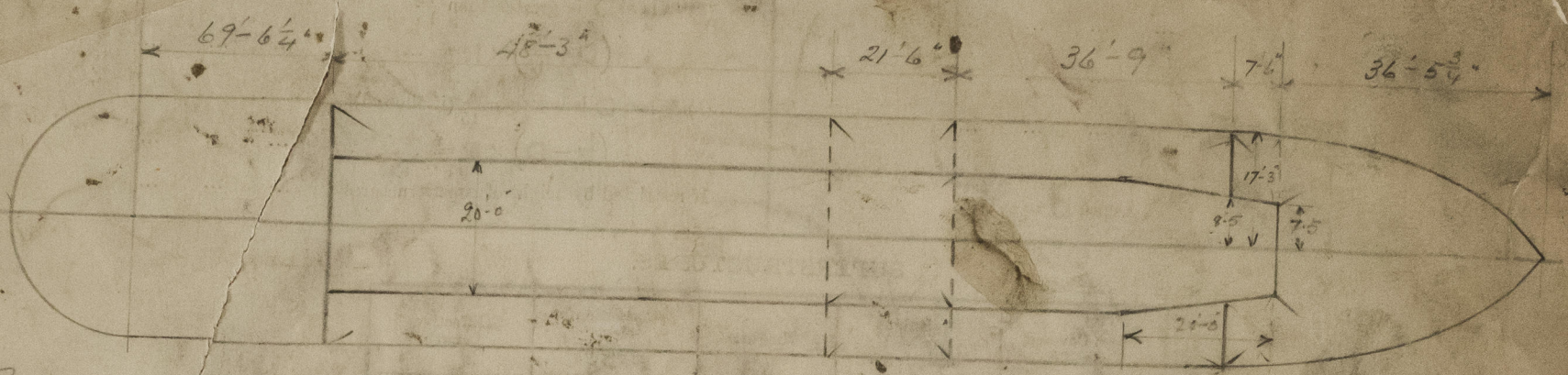
 $\left\{ \begin{array}{l} S = 9\frac{3}{4} \\ W = 11\frac{1}{4} \end{array} \right.$

DIFF FROM 1906

 $\left\{ \begin{array}{l} S = 4 \\ W = 2\frac{1}{2} \end{array} \right.$ Lloyd's Register
Foundation

003712-003719-0251

Bridge House?



Poop

69.52.

Trunks:

$$\begin{aligned} \text{AFT} &= 48.25 \times \frac{20}{36} = 26.81 \\ \text{FORD} &= 24.35 \times \frac{20}{36} = 13.47 \\ &= 12.50 \times \frac{17}{36} = 5.90 \end{aligned}$$

Bridge (open)

$$21.5 \div 2 = 10.75$$

Forecastle

$$\begin{aligned} \frac{8}{17.3} \times 7.5 &= 3.47 \\ &= 43.98 \\ &= 40.51 \end{aligned}$$

Trunk in way of bridge
not allowed for so more
allowance is obtained
by taking bridge



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