

Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD - STEAMERS

(Under the Provisions of the U. S. A. Load Line Act of March 2, 1929)

New York Office Index No. 100

Port of Survey New York

Date of Survey April 14th 1931

Name of Surveyor James H. Lee

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
S.S. "Chilcop"	New York U.S.A.	226870	5391	1920	+ 101 A1
Number in Register Book 67522					

Owner White Star Line Builder J. Doughty & Sons Ltd. Hull No. 15

Moulded dimensions 410.25' x 54.0 x 39.79 (85% = 25.32)
 Moulded displacement at a moulded draught of 85 per cent. of moulded depth 12,950 Tons
 Coefficient of fineness for use with tables .808

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER
Moulded depth ...	29.79	(a) When D is greater than $\frac{L}{15}$		Standard $\frac{54 \times 12}{50} = 12.96$
Stringer plate .66 in bridge	.05	$(D - \frac{L}{15}) \times R = (29.84 - 27.35) \times 3 = 7.47$		Ship ... 13.50
Sheathing in wells		(b) When D is less than $\frac{L}{15}$ (if allowed).		Difference54
$T(\frac{L-S}{L}) =$		$(\frac{L-D}{15}) \times R =$		Restricted to ...
Depth D =	29.84	If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S_1}{L}) = \frac{.54}{4} \times .49 = .07$

SUPERSTRUCTURES.

	Mean Covered Length S	Effective Length S ₁ (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed ...	43.75	43.75	7.75	✓	43.75
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	114.75	114.75	8.5	✓	114.75
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	47.00	47.00	8.0	✓	47.00
" overhang ...					
Trunks forward ...					
" aft ...					
Tonnage opening ...					

TOTAL = 205.50 205.50 205.50
 Length of ship (L) = 410.25 410.25 410.25
 % Covered... = 50.09% 50.09% 50.09%
 Corresponding %, corrected for absence of forecastle if required } A = ✓ B = 36.09%
 Allowance ... = 42.0 x .3609 = 15.16

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	71.0	51.02	71.0	1	71.00
2	32.0	22.68	32.0	4	128.00
3	8.0	5.67	8.0	2	16.00
4				4	
5	14.0	11.34	14.0	2	28.00
6	56.1	45.35	56.1	4	224.40
F.P. 7	140.0	102.04	140.0	1	140.00

If excess sheer forward and deficient sheer aft: ✓

Actual sheer aft = ✓
 Standard sheer aft

Actual sheer forward = ✓
 Standard sheer forward

Length of enclosed superstructure L = 280

Forward of amidships = 133L

Aft of amidships = 147L

Mean effective sheer ... = 33.75
 Standard sheer .05 L + 5 = 25.51
 Difference (Df) ... = 8.24
 Allowance = $Df \times (\frac{S}{2L}) = 8.24 \times (\frac{.75}{2 \times 280}) = .412$
 If limited on account of amidship superstructure ... ✓
 If limited on account of excess sheer (1 1/2 in. per 100 ft.) ... ✓

DRAFTS.	F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required)	
Moulded Depth D = 29' 9 1/2"	Displacement =	Corrected for Coefficient $\frac{.808 + .68}{1.36} = \frac{1.488}{1.36}$	74.68
Stringer Plate = 1/2"	Tons per inch =		81.72
Freeboard 29' 10" 93 1/4"			
Moulded draught 24' 0 1/4"			
Addition for keel below base line 2 3/4"			
Extreme draught 24' 3"			

	+	-
Correction for Depth ...	7.47	
" Superstructures ...		15.16
" Sheer ...		4.12
" Camber07
" Thickness of deck12
" Scantlings, etc. ...		
	7.47	19.47
Summer Freeboard =		69.72

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

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

5' 9 3/4"
 12"
 6"
 6"
 6"
 12"
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Note:—The Rules referred to below are the Load Line Regulations of the United States Department of Commerce.
(These should be consulted when completing the report.)

Is the poop or raised quarter deck connected with the bridge? No
Has the poop or raised quarter deck an efficient steel bulkhead at the fore end? Yes
Give particulars of the means of closing the openings in this bulkhead (Rules 43 and 44). Hinged steel w. d. doors
Has the bridge an efficient steel bulkhead at the fore end? Yes
Give particulars of the means of closing the openings in this bulkhead Hinged w. d. steel doors
Has the bridge an efficient steel bulkhead at the after end? Yes
Give particulars of the means of closing the openings in this bulkhead Two steel doors bolted with hook bolts (Class 2)
Has the forecastle an efficient steel bulkhead at the after end? Yes
Give particulars of the means of closing the openings in this bulkhead Two steel doors bolted with hook bolts (Class 2)
Are the engine and boiler openings covered by a bridge, poop, raised quarter-deck, or enclosed by a strong steel deckhouse? Covered by bridge
If the openings are not so protected, are the exposed parts of the casing efficiently constructed? Yes
Give thickness of plating, scantlings and spacing of stiffeners
Are Rules Nos. 19, 20, 21 and 22 complied with (where applicable)? Yes

Particulars of bulkheads of erections:

	Poop or Raised Quarter-Deck bulkhead	Bridge front bulkhead	Bridge after bulkhead	Forecastle bulkhead
Thickness of bulkhead plating	<u>7/16"</u>	<u>40, 44 beaming</u>	<u>7/16"</u>	<u>7/16"</u>
Scantlings of stiffeners	<u>8x3 1/2 x 7/16" angles</u>	<u>8x3 1/2 x 3 1/2 x .58 beam</u>	<u>6 x 3 1/2 x 7/16" angle</u>	<u>6 x 3 1/2 x 7/16" angle</u>
Spacing of stiffeners, and if bracketed	<u>30" not bracketed</u>	<u>21 to 31 lugs</u>	<u>30" not bracketed</u>	<u>25" not bracketed</u>
Height of sills of openings above deck	<u>15"</u>	<u>18"</u>	<u>18"</u>	<u>18"</u>

Particulars of weather deck hatchways. (In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

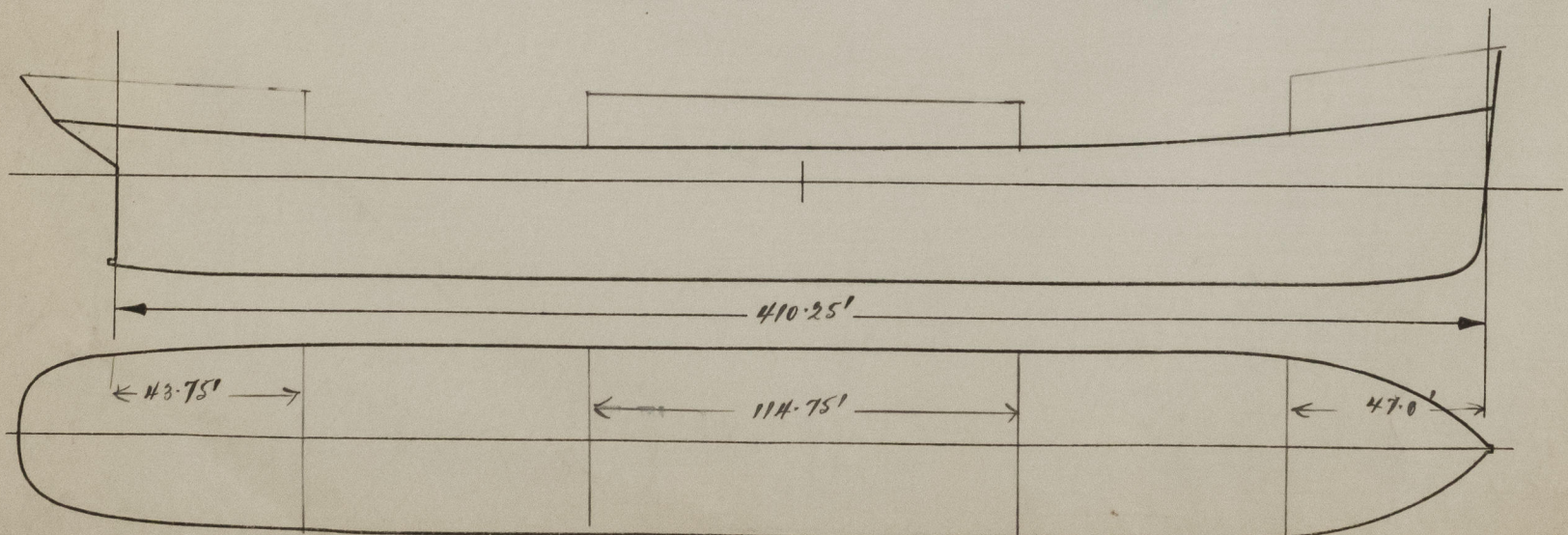
Position and Size.	No 1-24-15 31'6" x 21'0"		No 3 15'9" x 17'0"		Two Bunkers Hatchways 8'0" x 2'6"					
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.										
Height above top of DECK	<u>36</u>		<u>30</u>		<u>30</u>					
Thickness										
Sides	<u>.50</u>		<u>.50</u>		<u>.50</u>					
Ends	<u>.50</u>		<u>.50</u>		<u>.50</u>					
SHIFTING BEAMS OR WEB PLATES.										
Number	<u>5</u>		<u>3</u>							
Section and Scantlings	<u>1" 18 1/2 x 36</u>		<u>1 1/4" x 36</u>		<u>✓</u>					
Material	<u>Steel</u>		<u>Steel</u>							
* FORE AND AFTERS.										
Number										
Section and Scantlings	<u>✓</u>		<u>✓</u>		<u>✓</u>					
Material										
HATCHES Thickness	<u>3"</u>		<u>3"</u>		<u>3"</u>					
Remarks	<u>Wood</u>		<u>Wood</u>		<u>Wood</u>					

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

Are Rules 12, 13, 14, 15, 16, 17, 18 complied with as far as practicable? Yes
Are hatchway coamings stiffened in accordance with Rule 9? Yes Horizontal Stiffeners 8" x 3" Built angle
Length of bulwarks in wells—forward: _____ feet; aft: _____ feet. No Bulwarks, Open side rails
Area of freeing ports required by regulations (Rules 30 and 100) forward: _____ sq. ft.; aft: _____ sq. ft.
No. Ft. X Ft.
Particulars of freeing ports fitted { forward well } None = _____ sq. ft.
on each side of vessel { after well } None = _____ sq. ft.
Are Rules 23 and 24 complied with as far as practicable? Yes
Are air pipes to tanks in accordance with Rule 25? Yes
Are all scuppers and sanitary discharge pipes in accordance with Rule 27? Yes

In oil tankers, what is the extent of the fore and aft gangway? _____ Are the crew berthed in the forecastle? (Rule 96) _____
Is the gangway strong and efficiently braced fore and aft? _____ State spacing of supports _____ feet.
In oil tankers, are the bulwarks open for at least half the length of the exposed portion of the weather deck? (Rule 100) _____
Are Rules Nos. 95, 97, 98 and 99 complied with as far as practicable? _____

If the vessel has a complete superstructure deck with a tonnage opening, is the latter fitted with efficient temporary covers? ✓



Indicate thickness and extent of any deck covering, and extent of erections, with dimensions, showing overhang (if any).
Indicate position of scuppers from tonnage-exempted spaces above freeboard deck.

Sister vessels: ✓

Fee: \$80.00

Expenses (if any) ✓

(Signed) _____

James M. Reid's Register
Surveyor to Lloyd's Register of Shipping.

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Foundation