

Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD - STEAMERS

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

29031
New York Office Index No. 100
Port of Survey... *New York*
Date of Survey... *April 14th 1931*
Name of Surveyor... *James H. Peat*

Ship's Name. <i>S.S. "Chilcop"</i>	Port of Registry and Nationality. <i>New York U.S.A.</i>	Official Number. <i>226870</i>	Gross Tonnage. <i>5391</i>	Date of Build. <i>1920</i>	Particulars of Classification. <i>+ 101 A1</i>
---------------------------------------	---	-----------------------------------	-------------------------------	-------------------------------	---

Owner... *White Star Line* Builder... *J. Douglas & 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 <i>29.79</i>	(a) When D is greater than $\frac{L}{15}$	Standard $\frac{54 \times 12}{50} = \dots$ <i>12.96</i>
Stringer plate <i>:66 / .48 in bridge</i> <i>-.05</i>	$(\frac{D-L}{15}) \times R = (\frac{29.84 - 27.35}{15}) \times 3 = \dots$ <i>+ 7.47</i>	Ship <i>13.50</i>
Sheathing in wells $T(\frac{L-S}{L}) = \dots$ <i>✓</i>	(b) When D is less than $\frac{L}{15}$ (if allowed).	Difference <i>.54</i>
Depth D = <i>29.84</i>	$(\frac{L-D}{15}) \times R = \dots$ <i>✓</i>	Restricted to <i>✓</i>
	If restricted by height of superstructures <i>✓</i>	Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S_1}{L}) = \frac{.54}{4} \times (1 - \frac{.49}{410.25}) = \dots$ <i>-.07</i>

SUPERSTRUCTURES.

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

TOTAL = $\frac{205.50}{410.25} = 50.09\%$ $\frac{205.50}{410.25} = 50.09\%$ $\frac{205.50}{410.25} = 50.09\%$
 Length of ship (L) = *410.25*
 % Covered... = *50.09%*
 Corresponding %, corrected for absence of forecastle if required } **A** = *✓* **B** = *36.09%* Correction for Bridge less than 2 L if required } *✓*
 Allowance ... = *42.0* × *.3609* = *- 15.16*

SHEER.

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

If excess sheer forward and deficient sheer aft:— *✓*
 $\frac{\text{Actual sheer aft}}{\text{Standard sheer aft}} = \dots$ *✓*
 $\frac{\text{Actual sheer forward}}{\text{Standard sheer forward}} = \dots$ *✓*

Mean effective sheer = $\frac{607.40}{18} = \dots$ *33.75*
 Standard sheer .05 L + 5 = \dots *25.51*
 Difference (Df) = \dots *8.24*
 Allowance = $Df \times (.75 - \frac{S}{2L}) = 8.24(.75 - \frac{.250}{2 \times 410.25}) = \dots$ *- 4.12*
 If limited on account of amidship superstructure = *✓*
 If limited on account of excess sheer (1½ in. per 100 ft.) = *✓*

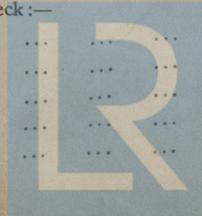
Length of enclosed superstructure = *.280*
 Forward of amidships = *.133L*
 Aft of amidships = *.147L*

DRAFTS.	F. W. ALLOWANCE	TABULAR FREEBOARD (corrected for flush deck if required) =
Moulded Depth D = <i>29' 9 1/2"</i>	Displacement =	<i>74.68</i>
Stringer Plate = <i>1/2"</i>	Tons per inch =	<i>81.72</i>
Freeboard = <i>5' 9 3/4"</i>		
Moulded draught = <i>24' 0 1/4"</i>		
Addition for keel below base line = <i>2 3/4"</i>		
Extreme draught = <i>24' 3"</i>		
		Corrected for Coefficient $\frac{.808 + .68}{1.36} = \frac{1.488}{1.36} = \dots$
		Correction for Depth <i>7.47</i>
		" Superstructures <i>15.16</i>
		" Sheer <i>4.12</i>
		" Camber <i>.07</i>
		" Thickness of deck <i>.12</i>
		" Scantlings, etc.
		<i>7.47</i> <i>19.47</i> <i>- 12.00</i>
		Summer Freeboard = <i>69.72</i>

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

Tropical Fresh Water Line above centre of Disc	<i>12"</i>
Fresh Water Line " " "	<i>6"</i>
Tropical Line " " "	<i>6"</i>
Winter Line below " " "	
Winter North Atlantic Line " " "	

Moulded depth *29' 9 1/2"*
 Stringer *1/2"*
 $29' 10" - 29.83'$
D $29.84'$
 $.01 \times 12 = .12"$



5' 9 3/4"
 © 1931
 Lloyd's Register
 MARKING FORM
 FEB 1931
 RECEIVED

W1331-0207

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. door
 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	7/16"	.40, .44 Coaming	7/16"	7/16"
Scantlings of stiffeners	8x3 1/2 x 7/16" angles	8x3 1/2 x 3 1/2 x .58 Chan.	6" x 3 1/2 x 7/16" angles	6" x 3 1/2 x 7/16" angles
Spacing of stiffeners, and if bracketed	30" not bracketed	21 to 31 lugs	30" not bracketed	25" not bracketed
Height of sills of openings above deck	15"	18"	18"	18"

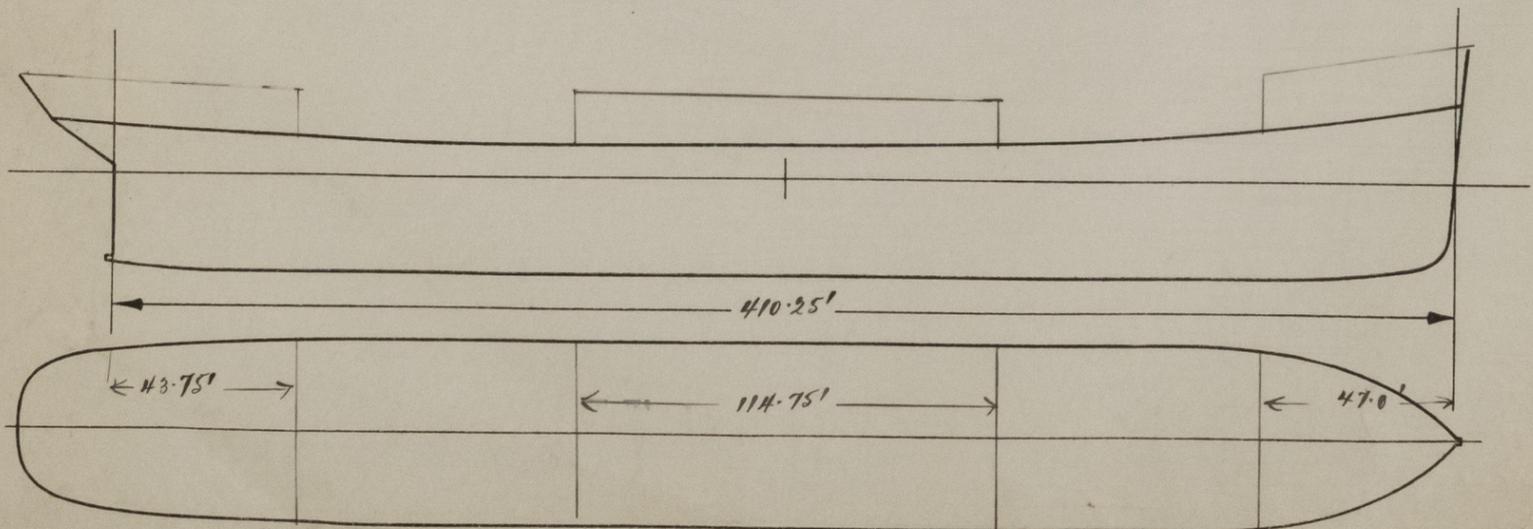
Particulars of weather deck hatchways. (In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

Position and Size.	No 1-24-15 31'6" x 21'0"		No 3 15'9" x 17'0"		Two Bunker Hatchways 9'0" x 21'6"					
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING: Height above top of DECK	36"		30"		30"					
Thickness	Sides	.50	.50		.50					
	Ends	.50	.50		.50					
SHIFTING BEAMS OR WEB PLATES.	Number	5	3							
	Section and Scantlings	1" 18 1/2 x 36 # 1 1/2" 48 x 98 #	1 1/4" 34 x 36 # 1 1/2" 48 x 98 #							
	Material	Steel	Steel							
* FORE AND AFTERS.	Number									
	Section and Scantlings	✓	✓		✓					
	Material									
HATCHES Thickness	3"		3"		3"					
Remarks	Wood		Wood		Wood					

* 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? Yes



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.

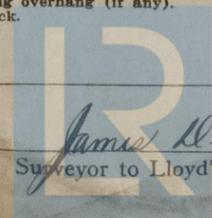
Sister vessels: ✓
 Fee: \$80.00

Expenses (if any) ✓

(Signed)

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

© 2021



Foundation