

B.T. COPY WRITTEN.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD - STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey Cleveland Ohio
Date of Survey While building
Name of Surveyor E. Drummond

American Shipbuilding Co's No 803

Ship's Name. ERTHA E. ALLEN	Port of Registry and Nationality. <u>Whiting, Ind.</u>	Official Number. <u>2935</u>	Gross Tonnage. <u>2935</u>	Date of Build. <u>1928</u>
Number in Register Book <input checked="" type="checkbox"/>	<u>American</u>	<input checked="" type="checkbox"/>		

Particulars of Classification.
#100A1. For service on the Great Lakes. Carrying Petroleum in bulk. (Class contemplated)

has been completed

LENGTH. <u>334' 0"</u>	BREADTH. <u>51' 08"</u>	DEPTH. <u>18' 5"</u>	UNDER DECK TONNAGE. <u>2247</u>
Frame Depth <u>7</u>	Ceiling <u>+20"</u>	Peak <u>+34"</u>	
Rule <u>5 1/2"</u>	Sheer <u>NIL</u>	Tanks <u>50.0 Space +57</u>	
<u>No Cargo</u>	<u>Battens +33"</u>	<u>Stow Hold +20"</u>	
<u>334' 0"</u>	<u>51' 16"</u>	<u>18' 7"</u>	<u>2447</u>

Moulded Depth as measured 18' 6"
Addition for Keel below base line for draught record 1' 3/4" inches.

NOTE - If the depth is measured when vessel is afloat, the details of measurement should be reported.

CORRECTION FOR LENGTH.

Length of Ship on Loadline 334' 0"
Length in Table 222
Difference 112
Correction for 10ft., Table A. 1.1
× Difference divided by 10 12.3
If 1/10ths length covered divide by 2 6.15" say + 6 1/4"

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered over 1/10 covered
Thickness of usual wood deck, less stringer -3 1/2"

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships 51' 0"
Round of Beam 12 3/4"
Normal round 12 3/4"
Difference 0
Proportion of Deck uncovered (Para. 19) ✓

NOTE - The round of beam should be reported on the full breadth of vessel at the gunwale.

Percentage of fineness .765
Modification necessary (Para. 4 (a) to (e))* 44 Bottom Longitudinals
Percentage as corrected .78

Stem 66
Sternpost 30
 $96 \div 2 = 48$... Mean
1/2 of the length from Stem 36
Sternpost 12
 $48 \div 2 = 24$... Mean
Mean Sheer 43' 63"
Mid mean Sheer [Table, Para. 18] 43' 40"
Difference 23"
Correction $\div 4 = 5.75$
As Para. 18 (f) NIL

At front of bridge house ✓
At after end of forecastle ✓

At front of bridge house ✓
At after end of forecastle ✓

ALLOWANCE FOR DECK ERECTIONS :-

Table C 1' 0 1/2"
Correction for Length, if required (Para. 12, 13, and 14) 3' 5 1/2"
Correction by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) 2' 4 1/2"
Total 50.8%
14.48

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) 1' 4 1/2"

Length.	Length allowed.	Height.
(Clowd) <u>52' 25"</u>	<u>52' 25"</u>	<u>4' 6"</u>
connected <u>202' 0"</u>	<u>104' 60"</u>	<u>6' 0"</u>
Qr. Dk. <u>49' 45"</u>	<u>49' 45"</u>	<u>4' 6"</u>
total <u>334' 0"</u>	<u>236' 6"</u>	<u>4' 08"</u>
Ship <u>334</u>	<u>334</u>	

Percentage 50.8%
Correction 56.2%

Standard recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck :-	
Fresh Water Line above centre of Disc	<u>(-2 1/4")</u>
Indian Summer Line	
Winter Line below	
Winter North Atlantic Line	

Freeboard, Table A 3' 5 1/2"
Correction for Sheer NIL
Correction for Length +6 1/4"
Allowance for Deck Erections -1' 4 1/2"
Correction for Round of Beam 2' 7 1/2 3/4"
Correction for fall in Sheer (if any) ✓
Correction for Iron Deck (if required) -3 1/2"
Additions for non-compliance with provisions of Para. 11 (d) and (e) ✓
Other Corrections (if any) ✓
Winter Freeboard 2' 2 5/8"
Summer Freeboard (2-3) 2 1/4"
Indian Summer Freeboard ✓
N. A. Winter Freeboard ✓

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or iron deck with side. +1 3/4"

Winter Freeboard from deck line 2' 7 1/2"
Summer " " " 2' 3 1/2 1/4"
Indian Summer " " " ✓
N. A. Winter " " " ✓

For all seasons 2' 0"
2' 4 1/2"

If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible. In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam. In vessels having poops and forecastles, it means the sheer measured at the stem and stern one-eighth of the vessel's length from stem and stern-post.

010933 - 010942 - 0154

Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? Bridge House? Forecastle? *Yes*

To what height do the Reverse Frames extend?

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes*

Give particulars of the means for closing the openings in Bulkhead *Bulkhead oil tight - no openings*

Is the Poop or Raised Quarter Deck connected with the Bridge House? Has the Bridge House an efficient Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead *Trunk connected to Poop & Forecastle*

What is the thickness of the Bridge Front plating? and Coaming plate?

Give scantlings and spacing of the Stiffeners

Are bracket plates fitted at each end of the Stiffeners? Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?

Has the Bridge House an efficient Iron Bulkhead at the after end?

How are the openings closed?

Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *Yes*

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Covered by Poop Deck*

If the openings are not so protected are the exposed parts of the Casings efficiently constructed?

Give thickness of plating; scantlings and spacing of Stiffeners

What is the height of the exposed openings? Are suitable means provided for closing all openings in them in bad weather?

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below: *Yes. Hatchways all on 6'-0" trunk*

Position and Size.		Center Tank Hatch		Wing Tank Hatch		Fore cargo Hatch		Pump room Hatch		Banker Hatch	
Item.		Ship.	Rule.								
COAMING	Height above top of Deck	<i>Trunk 9" #</i>		<i>12" #</i>		<i>30" #</i>		<i>9" #</i>		<i>9" #</i>	
	Thickness	<i>9x3 1/2 x 23 8</i>		<i>1/2" plate</i>		<i>1/2" plate</i>		<i>9x3 1/2 x 23 8</i>		<i>9x3 1/2 x 23 8</i>	
	Sides	<i>Bulk angle</i>						<i>Bulk angle</i>		<i>Bulk angle</i>	
	Ends										
SHIFTING BEAMS OR WEB PLATES	Number										
	Section and Scantlings	<input checked="" type="checkbox"/>									
	Material										
* FORE AND AFTERS	Number					<i>five #</i>					
	Section and Scantlings	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<i>3x5x9.8</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
	Material					<i>angle</i>					
HATCHES	Thickness	<i>.63" plate</i>									
	Remarks	<i>6'-0" x 4'-0" Oil hatch</i>		<i>5'-0" x 3'-0" Oil hatch</i>		<i>10'-0" x 9'-0"</i>		<i>3'-6" x 3'-6"</i>		<i>2'-9" x 2'-0"</i>	

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.
 (If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? Strake between Main and Bridge Sheerstrakes?

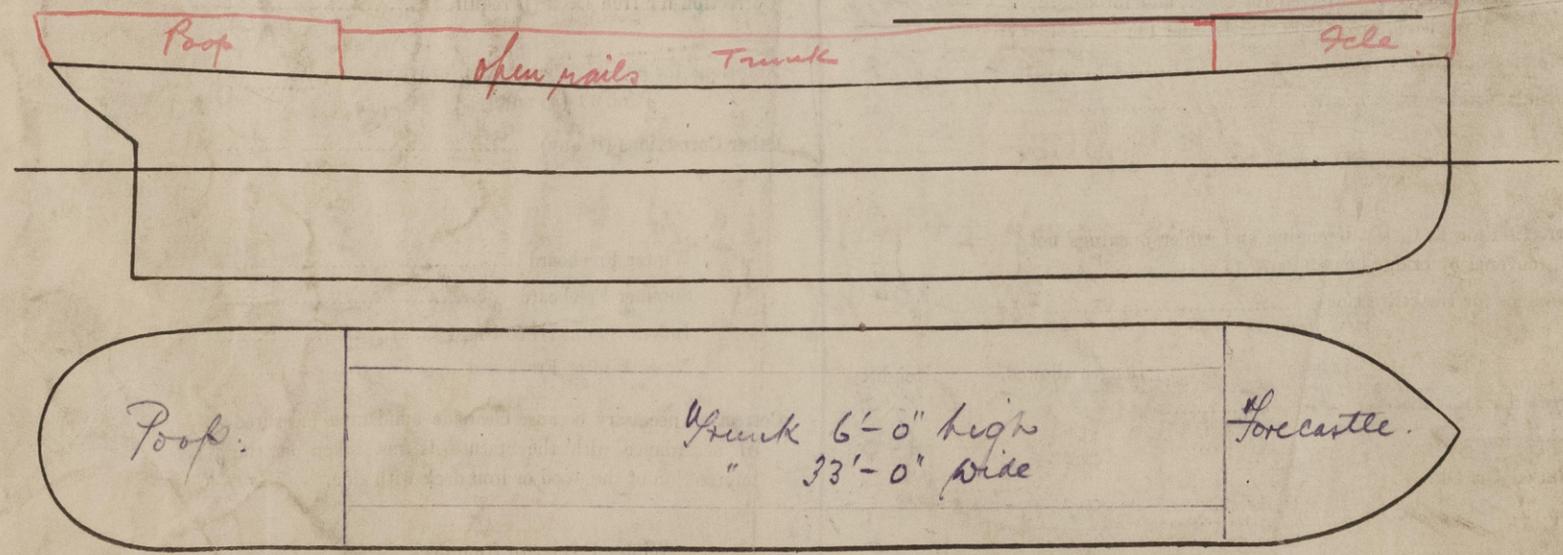
Delete the words The Crew are, are not, berthed in the bridge house.
 that do not apply The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Length of Bulwarks in well

Area of Freeing Ports required by Para. 11 (e) each side of vessel = Sq. ft.

Ft. Tenths. Ft. Tenths. No. } Freeing Ports = Sq. ft.
 (each side of vessel)

Total deficiency or excess = Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel *The trunk on deck extends continuously from Forecastle to Poop. This vessel will trade exclusively on the Great Lakes.*

Owners *Lake Tankers Corp., Chicago, Ill.*

Address *Chicago, Ill.*

Fee \$ *50.00*

Received by me

