

## STEEL STEAMER or MOTORSHIP

Received at London Office

3 SEP 1927

State if Report has been sent on the Forehead of the Vessel NoState if Report is sent on the Machinery of the Vessel Yes

Date of completion of report Aug. 9<sup>th</sup> 1927 Port of Cleveland Ohio No. 390  
Survey held at Lorain Ohio Date First Survey Nov 22 1926 Last Survey July 16<sup>th</sup> 1927  
On the (State if Machinery fitted A2 and A3) S/S "CARL D. BRADLEY" (machinery aft)  
State Type (Full Scantling, Complete Superstructure, with or without Tonnage Exemption)

State Type of Erections

Tonnage under 8162.06 CLASS F 100 A1 State if with freeboard No  
Service on the Great Lakes or on condition of Class Lakes  
Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 2 (1a) 615.0  
Breadth (greatest moulded) 65.0  
Depth at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 2 (1c) 33.0  
1st Longitudinal Number (L x D) 20295  
2nd Number L x (B + D) 60270  
Framing Depth "d" at middle of length. See Sec. 2 (1d) 29.25  
Proportions—Depth to Length—Uppermost continuous deck to top of keel 1:18.63  
Do. Long Bridge to top of keel 23.0  
Draught Moulded 23.0  
Built at Lorain Ohio  
Launched April 9<sup>th</sup> 27 Yard No. 494  
Builder Ames J.B. Boy  
Owner Bradley Transportation Co.  
Manager Residence Rogers City, Mich  
Port of Registry Duluth  
If surveyed while building, afloat, or in dry dock Both

## FRAMES DOUBLE BOTTOM AND BEAMS

	INCHES IN SHEET	Any Departure from Approved Plans to be noted.		INCHES IN SHEET	Any Departure from Approved Plans to be noted.
Long amidships	36		Bracket Floor, Frame		
from length to Collision bulkhead	18" Ford Pak		Reversed Frame		
in peaks	22 1/2" x 24" aft. Pak		Vertical Struts		
ships, Angle, [ or ]	13 x 3.5 x 22 1/2		Centre Girder, depth and thickness amidships	15" x 22.5	
Extends up to	Spas 2k		top Angle	3 1/2 x 3 1/2 x 12	
Amidships, Angle			bottom Angle	5 x 4 x 17.8	
Extends up to			Side Girders, No. each side and thickness	2 - 15"	
aming Girder	48		Margin Plate depth (excl. of flange) and thickness		
Uppermost Continuous 'tween			Vertical Angle to Tank side Bracket shaft 1/2 len. from stem		
Decks, Angle, [ or ]			Vertical Angle to Tank side Bracket forward 1/2 len. from stem		
Second 'tween Decks, Angle, [ or ]			Gussets, spacing and scantling shaft 1/2 len. from stem		
Third " " " "			Gussets, spacing and scantling forward 1/2 len. from stem		
Peaks, Angle or [	4 x 3.45 x 19 1/2		Tank Side Brackets, height above base line at toe of frame and thickness		
and Spacing of Rivets through Frame and Shell Plating amidships	1/8" 5 1/4" pitch		INNER BOTTOM PLATING		
same Joggled	Yes		Breadth and thickness of Middle Line Strake	48" x 20"	
ARRANGEMENTS (Sec. 7), state system and particulars	Three girders with 5 x 3 x 7.8" face L beams 15" x 25" E closely spaced high floors, 1" frames spaced 10" apart.		Thickness of remainder in Holds	15"	
FINING OF BOTTOM FOR State Particulars			Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	Yes	
Bottom			BEAMS		
Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, [ or ]		
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [ or ]		
Line Keelson, on Floors, Angles, [ or ]			Spacing		
" " Through Plate or Intercoastal Plate			Second Deck, amidships, Angle, [ or ]		
" " Foundation Plate on Floors			Spacing		
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [ or ]		
Keels, No. each side			Spacing		
thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, [ or ]		
Angles			Spacing		
Bottom			Peep Deck, Angle, [ or ]		
Keels, thickness and spacing	1/16 x 12.0"		Spacing		
" Are Frame and Reversed Frame joggled?	Frames joggled, no reversed frames		Bridge Deck, Angle, [ or ]		
Keel Floor, breadth and thickness at middle line	33 x 15		Spacing		
" " breadth and thickness at margin plate	45 x 17.5		Forecastle Deck, Angle, [ or ]		
			Spacing		



PILLARS AND DECKS									
INCHES IN SHEET		Any Departure from Approved Plans to be noted		INCHES IN SHEET		Any Departure from Approved Plans to be noted			
PILLARS, No. of Rows		1 Row		Stringer Plate, breadth and thickness in way of Bridge		10' 0" to 10' 6" x 10' 0" to 10' 6"			
in Tween Decks, Size and Spacing		Deep arched		Thickness of Plating abreast Deck openings in way of Wells		1/2" x 10' 0" to 10' 6"			
in Holds		10' 0" x 4' 5" H. Stanchions		Thickness of Plating abreast Deck openings in way of Bridge		1/2" x 10' 0" to 10' 6"			
Centre Line Bulkhead, Stiffeners and Spacing		10' 0" x 4' 5" H. Stanchions		Thickness of Plating within line of openings		1/2" x 10' 0" to 10' 6"			
Plating, thickness of		1/2"		If Sheathed, material and thickness		1/2"			
STRINGERS AND DECKS		1/2"		Third Deck		1/2"			
Uppermost Continuous Deck		1/2"		Stringer Plate, breadth and thickness		1/2"			
Stringer Plate, breadth and thickness in Wells		8' 13" x 5' 1"		If Plated, state thickness		1/2"			
in way of Bridge		8' 13" x 5' 1"		Fourth Deck		1/2"			
Angle in Wells		8' 13" x 5' 1"		Stringer Plate, breadth and thickness		1/2"			
Thickness of Plating abreast Deck openings in way of Wells		1/2"		If Plated, state thickness		1/2"			
Thickness of Plating abreast Deck openings in way of Bridge		1/2"		Poop Deck		1/2"			
Thickness of Plating within line of openings		1/2"		Stringer Plate, breadth and thickness		1/2"			
If Sheathed, material and thickness		1/2"		Plating, Sheathing, material and thickness		1/2"			
Second Deck		1/2"		Bridge Deck		1/2"			
Stringer Plate, breadth and thickness in Wells		1/2"		Stringer Plate, breadth and thickness		1/2"			
		1/2"		Plating, Sheathing, material and thickness		1/2"			
		1/2"		Forecastle Deck		1/2"			
		1/2"		Stringer Plate, breadth and thickness		1/2"			
		1/2"		Plating, Sheathing, material and thickness		1/2"			

  

SHELL PLATING									
SCANTLINGS				RIVETING					
AS IN VESSEL				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED		EDGES		BUTTS	
STRAKES	AMIDSHIPS	FORWARD	AFT	State of Joints	Single or Double	Rivets	No. of Rows of Rivets	Rivets	Strapped on
Breadth	Thickness	Thickness	Thickness			Diam.	Spacing	Diam.	Spacing
FLAT PLATE KEEL	48	40	40	Double	1"	4	1/8"	4"	Strapped
" Dura (if any)									
BOTTOM PLATING, No. of Strakes	96	25	19	"	7/8"	3 1/2"	4	7/8"	3 1/2"
BILGE PLATING, No. of Strakes	96	25	19	"	7/8"	3 1/2"	4	7/8"	3 1/2"
SIDE PLATING, No. of Strakes	96	25	19	"	7/8"	3 1/2"	4	7/8"	3 1/2"
UPPER DECK, Shear-strake in Wells	7/4"	25	25	Double	1 1/8"	4 1/2"	4	1 1/8"	4 1/2"
UPPER DECK, Shear-strake in Bridge									
STRAKE BELOW SHEAR-strake in Wells									
STRAKE BELOW SHEAR-strake in Bridge									
POOP SIDE PLATING									
BRIDGE SIDE PLATING									
FORECASTLE SIDE PLATING									

  

WATERTIGHT BULKHEADS									
Total No. of W.T. BULKHEADS in Vessel		Extending to Upper Deck (Sec. 8 c)		Deck next below		As per Rule		STIFFENERS	
								VERTICAL	
								SCANTLING/SPACING	
MIDSHIP BULKHEAD, Upper tween decks		1		10' 0" x 4' 5"		6' 3" x 10' 0"		60	
" Second "									
" Third "									
" Holds "									
COLLISION " (in Hold)									
AFTER PEAK "									

  

FORGINGS AND CASTINGS									
Casting or Forging		Scantling		Maker's Name		Any departure from approved plans to be noted			
KEEL, Bar		10' 0" x 4' 5"		Carnegie Steel Co.					
STEM		10' 0" x 4' 5"		Carnegie Steel Co.					
STERN FRAME		10' 0" x 4' 5"		Carnegie Steel Co.					
RUDDER - A & B		10' 0" x 4' 5"		Carnegie Steel Co.					
Speed of Vessel		10' 0" x 4' 5"		Carnegie Steel Co.					
RUDDER mainpiece at head		10' 0" x 4' 5"		Carnegie Steel Co.					
" heel		10' 0" x 4' 5"		Carnegie Steel Co.					
how constructed		10' 0" x 4' 5"		Carnegie Steel Co.					
double or single plate coupling, vertical or horizontal		10' 0" x 4' 5"		Carnegie Steel Co.					

  

STEEL	
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	Carnegie Steel Co. & Bethlehem Steel Co.
Has the Steel been tested as required by the Rules?	Yes

EQUIPMENT No.										LETTER										ANCHORS									
Number of Certificate		Anchor		WEIGHT, EX. STOCK		WEIGHT OF STOCK		TEST, PER CERTIFICATE		WEIGHT REQUIRED BY TABLE 50		Description of Anchor		Makers		Where and when tested and Superintended													
1844		1st Bower		8900		130620		9000		National		Blair, New		Cleveland		Feb. 16 - 1927													
1847		2nd "		8545		130280		9000		"		East, Co.		Feb. 16 - 1927		Feb. 16 - 1927													
		3rd "																											
		Stream																											

  

CHAIN CABLES										HAWSERS AND WARPS													
Number of Certificate		Length and size supplied		Test per Certificate		WEIGHT OF CHAIN CABLE		Length and size per Table 50		Description		Makers of Cable		Where and when tested and Superintended		Material		Length and size supplied		Breaking Test of Steel Wire		Length and size supplied	
337		180 2 3/4		142.5 199		59368		59368		180 2 3/4		S. R. 160		Nat. Malle		Sharon, Pa.		Towings		500 1 1/2		500 1 1/2	

  

Steering Gear, Steam *Ames 18 Cor. Steel* Connected *9" x 9"* Steering Gear, Hand *Ames J. B. Co. Emergency*

Boats *2, Metallic 22" 0"* Steering Chains, Size and Test *55 1/4 H.P. motor*

Celling in Holds, thickness and material *14-12" x 40"* Cargo Battsens, thickness, material and spacing *3/8" steel covers*

Cargo Hatchways, (Upper Deck) *14-12" x 40"* Thickness of Hatches *3/8" steel covers*

Size of No. 1 Hatchway (Forward) *No. 2* *No. 3* *No. 4* *No. 5* *No. 6*

Number of Shifting Beams and/or Fore and Afters

Builder's Signature *The American Ship Bldg. Co.*

  

GENERAL DECLARATION *The above described vessel has been built in accordance with the Rules & approved plans. The materials & workmanship employed in her construction were found to be sound & efficient.*

  

The amount of Entry Fee ..... \$55.00. Fees applied for, *19 Aug 1927*

Special Survey Fee ..... \$200.60. Received by me, *5-10-27*

Travelling Expenses, if any, *208.00* *brexit ny.* *443.50*

State whether the Vessel has been built under Special Survey *Yes*

Certificate to be sent to *N. Y. R.* Date of issue *16/9/27*

Signature *G. Drummond* Surveyor to Lloyd's Register of Shipping

  

Committee's Minute *NEW YORK AUG 24 1927*

Character assigned *+100 A1* Note: *Brachy. aft.*

*For service on the Great Lakes* *Turbo electric generator*

*+L.M.C. 7-27* *electrically coupled to screw shaft*

*Large ballast not fitted* *2 W.T.B.*

*Steam Pressure 325 lbs. 17"*

*F.D. Elec. light*



GEN

State the Number of Report and Name of any Sister Vessel. Place

used as

used and a

Particulars of Drop Test of Cast Steel Anchors, viz:—  
Weight, Surveyor's Initials,  
Number of Certificate, Date  
of Test.

1st Bower  
2nd "  
3rd "

Head & Shank drop tested as per Rules. 8900 LB. 1844 2/  
8845 LB. 1847 2/

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle  
(in feet and tenths) When the Poop is joined to the B.D., this should be distinctly stated.

No. and Material of Decks (this information is to be given as it should appear in the Register Book) One steel deck & web frame  
Part longitudinal framing at deck.

Official No. 226776 Signal Letters Is bottom of Vessel coated with cement No. if no  
particulars of composition Red lead paint.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	No.	*Length. Feet.	Water Capacity. (S.) Tons.	Where Fitted.	No.	*Length. Feet.	Water (S.) Tons.
Double bottom, aft,	1	84.0	1154	Fore peak tank,	24-0	3	
Double bottom, under Engines and Boilers,	3	84.0	1528	After peak tank,	17-6	1	
Double bottom, if under Engines only,	4	84.0	1516	Deep tank, aft,			
Double bottom, if under Boilers only,	5	72.0	1289	Deep tank, forward,			
Double bottom, forward,	6	72.0	380.	Other tanks, if fitted,			
	7	96.0	8649.	(If necessary, furnish further information by sketch.)			
		Total capacity of double bottom,	8649.	(The walls are not to be included in the lengths of the tanks.)			

Order for Special Survey No. 171

Aug. 25 - 1926

Dates of Survey  
held while building

1926 Nov 22, 23, 29. Dec. 6, 22, 30. 1927 Jan 4, 14, 18, 26, 29, 31. Feb. 5, 8, 15, 17, 24, 28. March 2, 4, 7, 12, 15, 31. April 2, 9, 11, 16, 20, 26. May 4, 12, 14, 18, 22, 25, 31. June 1, 7, 9, 15, 16, 20, 21, 22, 24, 25, 27, 30. July 4, 5, 6. Total No. of Visits 8. 9. 16. 18. 13. 14. 15. 16



*s/s "Carl D. Bradley"* *Rpt 390.*

**PARTICULARS OF LONGITUDINAL FRAMING.**

FRAMING.	AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.				
	In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			Rivets in Longitudinal Frames. Diam. Spang.	Spacing of Rivets on each side of Transverses and Bulkheads. Inches.	Rivets in Brackets to Bulkheads.		
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.			Number.	Diameter. Inches.	
Framing of L, C or C .....																	
Frames in Bridge 'tween Decks ...																	
Frames from Uppermost Continuous Deck																	
Framing from Awning, Shelter or Upper Deck to Margin Plate.	No. 1																
	" 2																
	" 3																
	" 4																
	" 5																
	" 6																
	" 7																
	" 8																
	" 9																
	" 10																
	" 11																
	" 12																
	" 13																
	" 14																
	" 15																
	" 16																
Spacing of Longitudinal Frames																	
Amidships .....																	
At Ends .....																	
Double Bottoms																	
L, C or C																	
Tank Top Longitudinals																	
Bottom ..																	
Spacing of Longitudinals																	
Amidships																	
At Ends...																	
Transverses.																	
In Bridge																	
'tween Decks																	
Depth and Thickness																	
Face Angles .....																	
Lugs to Shell* .....																	
In Awning, Shelter or Upper 'tween Decks.																	
Depth and Thickness																	
Face Angles .....																	
Lugs to Shell* .....																	
In Hold.																	
Depth and Thickness																	
Face Angles .....																	
Lugs to Shell* .....																	
Brackets .....																	
Spacing of Transverse Frames .....																	
* State if joggled or liners.																	
Longitudinal Beams of																	
Bridge Deck ...																	
Awg. or Shltr. Dk.																	
Upper																	
Second																	
Third																	
Transverse Beams.																	
DBL.																	
SGL.																	

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.

NOTE: This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.