

**CERTIFICATE OF ANALYSIS**



1819 Clarkson Rd.  
 Chesterfield, MO 63017  
 Phone: (636) 537-2600

Release Number: 597347  
 Ship Date: 8/23/2023

**Customer Information**

PO #	SSW137363, SSW137960	END USE PO #	MULT
CPO #		USE END USER PO #	
PART #	See Line Items Below...	CUSTOMER PART #	
REV LEVEL		SO #	838036, 839716, 839717

<b>Chemistry</b>	Heat Number	SN3921	MELTED AND MANUFACTURED IN THE USA						
C: 0.0600	Mn: 0.3700	P: 0.0070	S: 0.0030	Si: 0.0190	Cu: 0.1000	Al: 0.0320	V: 0.0020	Ni: 0.0300	Nb/CB:
Cr: 0.0500	Ti: 0.0020	Mo:	B: 0.0001	CE: 0.143	N: 0.0065	CA: 0.0021			

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200888488 Hot Rolled	0.0830	2.0000	288.0000	3,763	Tag As	TRENTON	31281N083HR09AL24CS Cust PO: SSW137960	A513 20 AWHR/AWPO	0	0	0

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**BULL MOOSE  
TUBE**

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Chemistry		Heat Number	MELTED AND MANUFACTURED IN THE USA							
C: 0.0600	Mn: 0.5400	SN3516	P: 0.0060	S: 0.0030	Si: 0.0220	Cu: 0.1200	Al: 0.0260	V: 0.0030	Ni: 0.0300	Nb/CB:
Cr: 0.0400	Ti: 0.0020	Mo:	B: 0.0001	CE: 0.172	N: 0.0060	CA: 0.0021				

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200873970	0.1870	1.5000	288.0000	3,588		TRENTON	30966N187HR00AB24ST		68000	63500	42
Hot Rolled		4" X 1.5" X 0.187	HR X 24'				Cust PO: SSW137960	A500 21 GRADE B & C			

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Chemistry		Heat Number	MELTED AND MANUFACTURED IN THE USA							
C: 0.0500	Mn: 0.4300	SN3285	P: 0.0060	S: 0.0020	Si: 0.0240	Cu: 0.1300	Al: 0.0290	V: 0.0020	Ni: 0.0400	Nb/CB:
Cr: 0.0400	Ti:	Mo: 0.0100	B: 0.0004	CE: 0.147	N: 0.0065	CA: 0.0021	Sn: 0.0020			

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
Product				Tag As							
200867442	0.1200	3.0000	240.0000	3,050		TRENTON	31900N120HR00AB20BM		65500	63000	40
Hot Rolled		3" X 1" X 0.120 HR X 20'				Cust PO: SSW137960		A500 21 GRADE B & C			

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<b>Chemistry</b>	Heat Number	NN4331	MELTED AND MANUFACTURED IN THE USA						
C: 0.0600	Mn: 0.3700	P: 0.0070	S: 0.0010	Si: 0.0280	Cu: 0.1300	Al: 0.0320	V: 0.0020	Ni: 0.0400	Nb/CB:
Cr: 0.0600	Ti: 0.0010	Mo:	B: 0.0002	CE: 0.15	N: 0.0057	CA: 0.0018			

Tag No Product	Gage	Width	Length	Weight Tag As	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200951653 Hot Rolled	0.0650	1.0000	288.0000	1,984		TRENTON	20640N065HR09AL24ST Cust PO: SSW137960	A513 20 AWHR/AWPO			

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<b>Chemistry</b>	Heat Number	NN3557	MELTED AND MANUFACTURED IN THE USA							
C: 0.0600	Mn: 0.3900	P: 0.0050	S: 0.0020	Si: 0.0290	Cu: 0.1100	Al: 0.0330	V: 0.0020	Ni: 0.0400	Nb/CB: 0.0010	
Cr: 0.0500	Ti:	Mo: 0.0100	B: 0.0003	CE: 0.152	N: 0.0059	CA: 0.0016	Sn: 0.0010			

Tag No Product	Gage	Width	Length	Weight Tag As	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
<b>200941255</b> Hot Rolled	0.1200	3.0000	288.0000	3,681		TRENTON	31900N120HR00AB24BM		65000	63500	40
		3" X 1" X 0.120 HR X 24'					Cust PO: SSW137960	A500 21 GRADE B & C			

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<b>Chemistry</b>	Heat Number	343401	<b>MELTED AND MANUFACTURED IN THE USA</b>							
C: 0.0620	Mn: 0.8900	P: 0.0060	S: 0.0020	Si: 0.0200	Cu: 0.0080	Al: 0.0410	V: 0.0020	Ni: 0.0050	Nb/CB: 0.0400	
Cr: 0.0200	Ti: 0.0020	Mo: 0.0020	B: 0.0001	CE: 0.219	N: 0.0056	CA: 0.0024	Sn: 0.0010			

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
Product				Tag As							
<b>200952234</b>	0.2500	4.0000	480.0000	7,814		TRENTON	22560N250HR00AB40ST		78616	65982	28
Hot Rolled		4" SQ X 0.250 HR X 40'					Cust PO: SSW137363	A500 21 B & C MELTED & MFG USA			
<b>200952261</b>	0.2500	4.0000	480.0000	7,814		TRENTON	22560N250HR00AB40ST		78616	65982	28
Hot Rolled		4" SQ X 0.250 HR X 40'					Cust PO: SSW137363	A500 21 B & C MELTED & MFG USA			

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<b>Chemistry</b>	Heat Number	343224	MELTED AND MANUFACTURED IN THE USA						
C: 0.0536	Mn: 0.9200	P: 0.0050	S: 0.0040	Si: 0.0100	Cu: 0.0060	Al: 0.0340	V: 0.0020	Ni: 0.0050	Nb/CB: 0.0290
Cr: 0.0200	Ti: 0.0010	Mo: 0.0020	B: 0.0001	CE: 0.214	N: 0.0075	CA: 0.0028			

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
Product				Tag As							
<b>200849097</b>	0.1250	1.5000	288.0000	2,494		TRENTON	30966N125HR00AB24ST		79500	76000	30
Hot Rolled		4" X 1.5" X 0.125	HR X 24'			Cust PO: SSW137960		A500 21 GRADE B & C			

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<b>Chemistry</b>	Heat Number	334445	MELTED AND MANUFACTURED IN THE USA							
C: 0.0591	Mn: 0.9300	P: 0.0060	S: 0.0020	Si: 0.0100	Cu: 0.0050	Al: 0.0410	V: 0.0010	Ni: 0.0040	Nb/CB: 0.0350	
Cr: 0.0200	Ti: 0.0010	Mo: 0.0020	B: 0.0001	CE: 0.221	N: 0.0070	CA: 0.0032				

Tag No Product	Gage	Width	Length	Weight Tag As	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
<b>200900111</b> Hot Rolled	0.1870	2.0000	240.0000	2,473		TRENTON	31288N187HR00AB20ST Cust PO: SSW137960	A500 21 GRADE B & C	83500	79500	28



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<b>Chemistry</b>	Heat Number	23036102								MELTED AND MANUFACTURED IN THE USA	
C: 0.0500	Mn: 0.3400	P: 0.0110	S: 0.0030	Si: 0.0300	Cu: 0.0800	Al: 0.0280	V: 0.0020	Ni: 0.0400	Nb/CB: 0.0010		
Cr: 0.0500	Ti:	Mo: 0.0120	B: 0.0001	CE: 0.132	N: 0.0075	CA: 0.0022	Sn: 0.0048				

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200762995	0.0830	1.2500	288.0000	3,160		TRENTON	20800N083HR09AL24ST		0	0	0
Hot Rolled		1.25"	SQ X 0.083	HR X 24'			Cust PO: SSW137960	A513 20 AWHR/AWPO			

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L.P.

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<b>Chemistry</b>	Heat Number	23029091	MELTED AND MANUFACTURED IN THE USA							
C: 0.0500	Mn: 0.3400	P: 0.0070	S: 0.0030	Si: 0.0300	Cu: 0.0900	Al: 0.0300	V: 0.0030	Ni: 0.0500	Nb/CB: 0.0010	
Cr: 0.0400	Ti: 0.0010	Mo: 0.0170	B: 0.0002	CE: 0.132	N: 0.0071	CA: 0.0026	Sn: 0.0047			

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
Product				Tag As							
200759586	0.1200	1.2500	240.0000	3,688		TRENTON	20800N120HR09AL20ST		0	0	0
Hot Rolled		1.25" SQ	X 0.120 HR	X 20'			Cust PO: SSW137960	A513 20 AWHR/AWPO			

**Total Certificate Weight: 43,509 LBS 19,735.4 KGS**

THIS WELDED STEEL TUBING IS MANUFACTURED IN THE UNITED STATES OF AMERICA AND HAS BEEN PRODUCED IN ACCORDANCE WITH THE STATED SPECIFICATION. LADLE CHEMISTRIES ARE REPORTED FROM DOCUMENTS PROVIDED BY THE SUPPLYING STEEL MILL. ANY PHYSICAL AND MECHANICAL TESTING RESULTS SHOWN ON THIS CERTIFICATION ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY.

Mark Miller  
 Corporate Quality Manager