

CERTIFICATE OF ANALYSIS

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

BILL TO:
Service Steel Warehouse L.P.
8415 Clinton Dr.
Houston, TX 77029
UNITED STATES

SHIP TO:
Service Steel Warehouse L.P.
8415 Clinton Dr.
Houston, TX 77029
UNITED STATES

Release Number: 585868
Ship Date: 3/29/2023

Page: 1 of 6

Customer Information

PO #	SSW133613, SSW134490	END USE PO #	
CPO #		USE END USER PO #	
PART #	See Line Items Below...	CUSTOMER PART #	
REV LEVEL		SO #	825973, 828936

Chemistry

Heat Number	NN1204									
C: 0.0600	Mn: 0.5800	P: 0.0100	S: 0.0030	Si: 0.0190	Cu: 0.1200	Al: 0.0240	V: 0.0040	Ni: 0.0300	Nb/CB: 0.0040	
Cr: 0.0500	Ti: 0.0010	Mo: 0.0100	B: 0.0002	CE: 0.182	N: 0.0056	CA: 0.0023	Sn: 0.0020			

Tag No	Product	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
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200698484	Hot Rolled	0.1870	2.0000	240.0000	2.683	Tag As	TRENTON	31284N187HR000AB20ST	A500 21 GRADE B & C	70500	67500	43
			3" X 2"	X 0.187 HR X 20'				Cust PO: SSW134490				

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Chemistry Heat Number NN0914
MELTED AND MANUFACTURED IN THE USA
C: 0.0600 Mn: 0.5400 P: 0.0090 S: 0.0020 Si: 0.0340 Cu: 0.1400 Al: 0.0300 V: 0.0040 Ni: 0.0400 Nb/CB: 0.0050
Cr: 0.0500 Ti: 0.0010 Mo: 0.0100 B: 0.0003 CE: 0.18 N: 0.0052 CA: 0.0022 Sn: 0.0020

Tag No	Product	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200693699	Hot Rolled	0.1870	1.5000	288.0000	3.809	Tag As	TRENTON	30964N187HR00AB24ST	A500 21 GRADE B & C	71500	68000	35
			3" X 1.5" X 0.187 HR X 24'					Cust PO: SSW134490				

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Chemistry Heat Number 242432
 MELTED AND MANUFACTURED IN THE USA

C: 0.0508	Mn: 0.8700	P: 0.0070	S: 0.0020	Si: 0.0200	Cu: 0.0060	Al: 0.0350	V: 0.0010	Ni: 0.0040	Nb/CB: 0.0330
Cr: 0.0300	Ti: 0.0010	Mo: 0.0010	B: 0.0001	CE: 0.206	N: 0.0061	CA: 0.0027	Sn: 0.0010		

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200711815	0.1870	2.0000	480.0000	3.830		TRENTON	31300N187HR00AB40ST		73668	67197	32.5
Hot Rolled 8" X 2" X 0.187 HR X 40'											
Cust PO: SSW134490 A500 21 GRADE B & C											

Date: 12/6/2023 To: SENTRY SUPPLY dba SO#: A795338 Ln#: 1 PO#: P0245836-1 Part: T0300151824* Qty: 1
 Heat#: NN0914* Tag: B01120623 Page: 3 of 12

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Chemistry Heat Number 233843

MELTED AND MANUFACTURED IN THE USA

C: 0.0535 Mn: 0.8900 P: 0.0060 S: 0.0030 Si: 0.0100 Cu: 0.0070 Al: 0.0400 V: 0.0010 Ni: 0.0050 Nb/CB: 0.0290
Cr: 0.0200 Ti: 0.0010 Mo: 0.0040 B: 0.0001 CE: 0.209 N: 0.0054 CA: 0.0016 Sn: 0.0010

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200689561	0.2030	2.8750	289.0000	2.650		TRENTON	41840N203S400BL289A		75191	74598	25.25
Schedule 40 Pipe 2.5" Sch 40 X 24' 1"											
Cust PO: SSW133613 A500 21 Grade B 50 MY (BL)											

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Chemistry Heat Number 23030691
MELTED AND MANUFACTURED IN THE USA
C: 0.0500 Mn: 0.8400 P: 0.0090 S: 0.0030 Si: 0.0300 Cu: 0.0800 Al: 0.0290 V: 0.0030 Ni: 0.0400 Nb/CB: 0.0180
Cr: 0.0400 Ti: 0.0010 Mo: 0.0170 B: 0.0002 CE: 0.214 N: 0.0079 CA: 0.0021 Sn: 0.0046

Tag No	Product	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200732412	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650	Tag As	TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732419	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732392	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732398	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732097	Schedule 40 Pipe	0.2030	2.8750	301.0000	2,760		TRENTON	41840N203S400BL301L Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732470	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732479	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732461	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732468	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732457	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0

Date: 12/6/2023 To: SENTRY SUPPLY dba SO#: A795338 L#: 1 PO#: P0245836-1 Part: T0300151824 Qty: 1
Heat#: NN0914* Tag: B01120623 Page: 5 of 12

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Release Number: 585868
Ship Date: 3/29/2023

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200732459	0.2030	2.8750	289.0000	2.650	TRENTON	41840N203S400BL289A	Retest Ele	Failed Elo	0
	Schedule 40 Pipe	2.5" Sch 40 X 24' 1"			Cust PO: SSW133613		A500 21 Grade B 50 MY (BL)		
200732445	0.2030	2.8750	289.0000	2.650	TRENTON	41840N203S400BL289A	Retest Ele	Failed Elo	0
	Schedule 40 Pipe	2.5" Sch 40 X 24' 1"			Cust PO: SSW133613		A500 21 Grade B 50 MY (BL)		
200732368	0.2030	2.8750	289.0000	2.650	TRENTON	41840N203S400BL289A	Retest Ele	Failed Elo	0
	Schedule 40 Pipe	2.5" Sch 40 X 24' 1"			Cust PO: SSW133613		A500 21 Grade B 50 MY (BL)		

Total Certificate Weight: 47,532 LBS 21,560.2 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

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Ship Date: 3/29/2023
Page: 1 of 6

Customer Information

PO # SSW133613, SSW134490
CPO #
PART # See Line Items Below...
REV LEVEL SO # 825973, 828936

Chemistry

Heat Number NN1204
C: 0.0600 Mn: 0.5800 P: 0.0100 S: 0.0030 Si: 0.0190 Cu: 0.1200 Al: 0.0240 V: 0.0040 Ni: 0.0300 Nb/CB: 0.0040
Cr: 0.0500 Ti: 0.0010 Mo: 0.0100 B: 0.0002 CE: 0.182 N: 0.0056 CA: 0.0023 Sn: 0.0020

Tag No

Tag No	Product	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200698484	Hot Rolled	0.1870	2.0000	240.0000	2.683	Tag As	TRENTON	31284N187HR00AB20ST	A500 21 GRADE B & C	70500	67500	43
			3" X 2" X 0.187 HR X 20'					Cust PO: SSW134490				

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Chemistry Heat Number NN0914

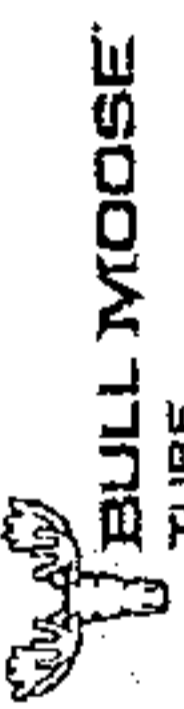
MELTED AND MANUFACTURED IN THE USA

C: 0.0600	Mn: 0.5400	P: 0.0090	S: 0.0020	Si: 0.0340	Cu: 0.1400	Al: 0.0300	V: 0.0040	Ni: 0.0400	Nb/CB: 0.0050
Cr: 0.0500	Ti: 0.0010	Mo: 0.0100	B: 0.0003	CE: 0.18	N: 0.0052	CA: 0.0022	Sn: 0.0020		

Tag No	Product	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200693699	Hot Rolled	0.1870	1.5000	288.0000	3.809	Tag As	TRENTON	30964N187HR00AB24ST	A500 21 GRADE B & C	71500	68000	35
			3" X 1.5" X 0.187 HR X 24'					Cust PO: SSW134490				

Date: 12/6/2023 TO: SENTRY SUPPLY dba SO#: A795338 Ln# 1 PO#: P0245836-1 Part: T0300151824* Qty: 1
Heat# NN0914* Tag: B01120623 Page: 8 of 12

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Release Number: 585868
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Chemistry Heat Number 242432 MELTED AND MANUFACTURED IN THE USA

C: 0.0508 Mn: 0.8700 P: 0.0070 S: 0.0020 Si: 0.0200 Cu: 0.0060 Al: 0.0350 V: 0.0010 Ni: 0.0040 Nb/CB: 0.0330

Cr: 0.0300 Ti: 0.0010 Mo: 0.0010 B: 0.0001 CE: 0.206 N: 0.0061 CA: 0.0027 Sn: 0.0010

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Tensile	Yield	Elong
200711815	0.1870	2.0000	480.0000	3.830	Tag As	TRENTON	31300N187HR00AB40ST	73668	67197	32.5
Hot Rolled						8" X 2" X 0.187 HR X 40'		A500 21 GRADE B & C		
						Cust PO: SSW134490				

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Chemistry Heat Number 233843

MELTED AND MANUFACTURED IN THE USA

C: 0.0535 Mn: 0.8900 P: 0.0060 S: 0.0030 Si: 0.0100 Cu: 0.0070 Al: 0.0400 V: 0.0010 Ni: 0.0050 Nb/CB: 0.0290
Cr: 0.0200 Ti: 0.0010 Mo: 0.0040 B: 0.0001 CE: 0.209 N: 0.0054 CA: 0.0016 Sn: 0.0010

Tag No	Product	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200689561	Schedule 40 Pipe	0.2030	2.8750	289.0000	2.650	Tag As	TRENTON	41840N203S400BL289A	A500 21 Grade B 50 MY (BL)	75191	74598	25.25

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Chemistry Heat Number 23030691 **MELTED AND MANUFACTURED IN THE USA**

C: 0.0500 Mn: 0.8400 P: 0.0090 S: 0.0030 Si: 0.0300 Cu: 0.0800 Al: 0.0290 V: 0.0030 Ni: 0.0400 Nb/CB: 0.0180
Cr: 0.0400 Ti: 0.0010 Mo: 0.0170 B: 0.0002 CE: 0.214 N: 0.0079 CA: 0.0021 Sn: 0.0046

Tag No	Product	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200732412	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650	Tag AS	TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732419	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732392	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732398	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732097	Schedule 40 Pipe	0.2030	2.8750	301.0000	2,760		TRENTON	41840N203S400BL301L Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732470	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732479	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732461	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732468	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0
200732457	Schedule 40 Pipe	0.2030	2.8750	289.0000	2,650		TRENTON	41840N203S400BL289A Cust PO: SSW133613	A500 21 Grade B 50 MY (BL)	Retest Ele	Failed Elo	0

Date: 12/6/2023 To: ENTRY SUPPLY dba SO#: A795338 L#: 1 PO#: P0245836-1 Part: T0300151824* Qty: 1
Heat#: NN0914* Tag: B01120623 Page: 11 of 12

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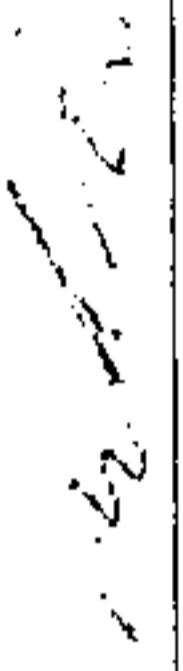
 <p>BULL MOOSE TUBE 1819 Clarkson Rd. Chesterfield, MO 63017 Phone: (636) 537-2600</p>	<p>BILL TO: Service Steel Warehouse L.P. 8415 Clinton Dr. Houston, TX 77029 UNITED STATES</p>	<p>SHIP TO: Service Steel Warehouse L.P. 8415 Clinton Dr. Houston, TX 77029 UNITED STATES</p>
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200732459	0.2030	2.8750	289.0000	2.650	TRENTON	41840N203S400BL289A	Retest Ele	Failed Elo	0
	Schedule 40 Pipe	2.5" Sch 40 X 24' 1"			Cust PO: SSW133613		A500 21 Grade B 50 MY (BL)		
200732445	0.2030	2.8750	289.0000	2.650	TRENTON	41840N203S400BL289A	Retest Ele	Failed Elo	0
	Schedule 40 Pipe	2.5" Sch 40 X 24' 1"			Cust PO: SSW133613		A500 21 Grade B 50 MY (BL)		
200732368	0.2030	2.8750	289.0000	2.650	TRENTON	41840N203S400BL289A	Retest Ele	Failed Elo	0
	Schedule 40 Pipe	2.5" Sch 40 X 24' 1"			Cust PO: SSW133613		A500 21 Grade B 50 MY (BL)		

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 Corporate Quality Manager