

# CERTIFICATE OF ANALYSIS

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

**BILL TO:**  
 8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

**SHIP TO:**  
 8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

Houston

Release Number: 625536  
 Ship Date: 8/16/2024

Page: 1 of 6

**Customer Information**


PO # SSW145321 END USE PO #  
 CPO # USE END USER PO #  
 PART # See Line Items Below... CUSTOMER PART #  
 REV LEVEL SO # 862518

**Chemistry** Heat Number C4620 MELTED AND MANUFACTURED IN THE USA

C: 0.0600 Mn: 0.6200 P: 0.0140 S: 0.0060 Si: 0.0100 Cu: 0.1300 Al: 0.0310 V: 0.0030 Ni: 0.0500 Nb/CB: 0.0010  
 Cr: 0.0700 Ti: 0.0010 Mo: 0.0100 B: 0.0002 CE: 0.193 N: 0.0080 CA: 0.0029 Sn: 0.0300

Tag No	Product	Gage (IN)	Width (IN)	Length (IN)	Weight (Lbs)	Coating Tag As	Prod Plant	Part Number	Grade	Tensile (psi)	Yield (psi)	Elong (%)
201285242	Hot Rolled	0.2500	4.0000	576.0000	7,303		CASA GRANDE	32565N250HR00AB48ST	A500 21 B & C MELTED & MFG USA	68281	55962	31
			8" X 4" X 0.250 HR X 48'					Cust PO: SSW145321				

# CERTIFICATE OF ANALYSIS

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

**BILL TO:**  
 Service Co.  
 8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

**SHIP TO:**  
 8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

Page: 2 of 6

Release Number: 625536  
 Ship Date: 8/16/2024

MELTED AND MANUFACTURED IN THE USA											
<b>Chemistry</b>		Heat Number	C4618								
C: 0.0500	Mn: 0.6200	P: 0.0150	S: 0.0090	Si: 0.0200	Cu: 0.1300	Al: 0.0550	V: 0.0030	Ni: 0.0500	Nb/CB: 0.0220		
Cr: 0.0700	Ti: 0.0020	Mo: 0.0200	B: 0.0002	CE: 0.187	N: 0.0090	CA: 0.0035	Sr: 0.0030				

Tag No	Gage (IN)	Width (IN)	Length (IN)	Weight (Lbs)	Coating	Prod Plant	Part Number	Grade	Tensile (psi)	Yield (psi)	Elong (%)
201285242	0.2500	4.0000	576.0000	7.303		CASA GRANDE	32565N250HR00AB48ST	A500 21 B & C MELTED & MFG USA	68281	55962	31
Hot Rolled 8" X 4" X 0.250 HR X 48'											
Cust PO: SSW145321											

# CERTIFICATE OF ANALYSIS

**SHIP TO:**  
 8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

**BILL TO:**  
 Service Co.  
 8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

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

Page: 3 of 6

Release Number: 625536  
 Ship Date: 8/16/2024

MELTED AND MANUFACTURED IN THE USA									
<b>Chemistry</b>	Heat Number	C3613							
C: 0.0400	Mn: 0.6900	P: 0.0160	S: 0.0090	Si: 0.0300	Cu: 0.1300	Al: 0.0280	V: 0.0020	Ni: 0.0400	Nb/CB: 0.0230
Cr: 0.0900	Ti: 0.0020	Mo: 0.0200	B: 0.0001	CE: 0.193	N: 0.0050	CA: 0.0024	Sn: 0.0400		

Tag No	Gage (IN)	Width (IN)	Length (IN)	Weight (Lbs)	Coating	Prod Plant	Part Number	Grade	Tensile (psi)	Yield (psi)	Elong (%)
201253070	0.2500	4.0000	480.0000	7.497		CASA GRANDE	32563N250HR00AB40ST	A500 21 B & C MELTED & MFG USA	70231	59965	29
Hot Rolled		6" X 4" X 0.250 HR X 40'					Cust PO: SSW145321				

Printed By: \*Scheduler\*

8/16/2024 17:53:32

EN 10204:2004 TYPE 3.1 CERT

psda:cc-484.32A

# CERTIFICATE OF ANALYSIS

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

BILL TO:

8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

SHIP TO:


8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

Page: 4 of 6

Release Number: 625536  
 Ship Date: 8/16/2024

MELTED AND MANUFACTURED IN THE USA											
Chemistry	Heat Number	831D03620									
C: 0.0500	Mn: 0.5900	P: 0.0090	S: 0.0050	Si: 0.0260	Cu: 0.0160	Al: 0.0390	V: 0.0010	Ni: 0.0100	Nb/CB: 0.0300		
Cr: 0.0300	Ti: 0.0020	Mo: 0.0060	B: 0.0002	CE: 0.162	N: 0.0050						
Tag No	Gage (IN)	Width (IN)	Length (IN)	Weight (Lbs)	Coating Tag As	Prod Plant	Part Number	Grade	Tensile (psi)	Yield (psi)	Elong (%)
201287540	0.3120	4.0000	480.0000	9,491		CASA GRANDE	22560N312HR00AB40ST	A500 21 B & C MELTED & MFG USA	67688	56305	32
Hot Rolled		4" SQ X 0.312 HR X 40'					Cust PO: SSW145321				

# CERTIFICATE OF ANALYSIS

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

**BILL TO:**  
 8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

**SHIP TO:**  
 8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

Page: 5 of 6

Release Number: 625536  
 Ship Date: 8/16/2024

MELTED AND MANUFACTURED IN THE USA											
<b>Chemistry</b>		Heat Number	301478								
C: 0.0500	Mn: 0.5700	P: 0.0090	S: 0.0010	Si: 0.0200	Cu: 0.1200	Al: 0.0200	V: 0.0010	Ni: 0.0800	Nb/CB: 0.0210		
Cr: 0.0700	Ti: 0.0010	Mo: 0.0100	B:	CE: 0.178	N: 0.0090	CA: 0.0020	Sn: 0.0100				
Tag No	Gage (IN)	Width (IN)	Length (IN)	Weight (Lbs)	Coating	Prod Plant	Part Number	Grade	Tensile (psi)	Yield (psi)	Elong (%)
201289366	0.2500	4.0000	480.0000	7.174	Tag As	CASA GRANDE	32567N250HR00AB40ST	A500 21 B & C MELTED & MFG USA	68709	56709	31
Hot Rolled	10" X 4" X 0.250 HR X 40'										
						Cust PO: SSW145321					

EN 10204:2004 TYPE 3.1 CERT

psdata.cc-484.32A

Printed By: "Scheduler"

8/16/2024 17:53:32

# CERTIFICATE OF ANALYSIS

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

BILL TO:

Services Co.  
 8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

SHIP TO:

8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

Page: 6 of 6

Release Number: 625536

Ship Date: 8/16/2024

MELTED AND MANUFACTURED IN THE USA

**Chemistry** Heat Number 287263

C: 0.0400 Mn: 0.5700 P: 0.0080 S: 0.0010 Si: 0.0300 Cu: 0.1100 Al: 0.0200 V: 0.0010 Ni: 0.0800 Nb/CB: 0.0220

Cr: 0.0800 Ti: 0.0010 Mo: 0.0100 B: CE: 0.171 N: 0.0060 CA: 0.0020 Sn: 0.0100

Tag No	Gage (IN)	Width (IN)	Length (IN)	Weight (Lbs)	Coating Tag As	Prod Plant	Part Number	Grade	Tensile (psi)	Yield (psi)	Elong (%)
200759061	0.2500	4.0000	480.0000	7,174		CASA GRANDE	32567N250HR00DC400H	A500 21 B & C MELTED & MFG USA	68257	56856	30
		10" X 4" X 0.250 HR X 40'					Cust PO: SSW145321				
200759070	0.2500	4.0000	480.0000	7,174		CASA GRANDE	32567N250HR00DC400H	A500 21 B & C MELTED & MFG USA	68257	56856	30
		10" X 4" X 0.250 HR X 40'					Cust PO: SSW145321				

**Total Certificate Weight: 45,813 LBS**

**20,780.4 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