



EVRAZ INC. NA
 14400 N. Rivergate Blvd., Portland, Oregon 97203

REPORT OF CHEMICAL/PHYSICAL TESTS

ISO 9001
 REGISTERED
 U.S. PLATE PRODUCER

SOLD TO

SAMUEL SON & COMPANY
 2360 DIXIE ROAD
 MISSISSAUGA, ON L4Y 1Z7
 CANADA

SAMUEL METAL SERVICE LTD. *
 701 15TH AVENUE
 NISKU, AB T9E 7L5
 CANADA

CERTIFICATE NO.	1542560	DATE	Mar 09, 2017	PAGE	1
MLL ORDER NO.	307962	DATE			
CUSTOMER ORDER NO.	T 02349				
JOB REF. NO.					
SHIPPING NO.	1542560	DATE	03/09/2017		
CARRIER	UNION PACIFIC				
CART/BUCK NO.	TPPX805195BT				

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS
 CARBON STEEL PRESSURE VESSEL QUALITY PLATE ASTM A516-15 GRADE 70 ASME SA516
 GRADE 70 2015 PLATE NORMALIZED TESTS CUT FROM NORMALIZED PLATE NO WELD REPAIR.
 PRESSURE VESSEL QUALITY. KILLED FINE GRAIN PRACTICE. ICVN 20 (continued)

PHYSICAL PROPERTIES

ITEM	DESCRIPTION	HEAT NO.	SLAB	YIELD PSI X 100	TENSILE PSI X 100	% ELONG 8" 2"	% RA	HARDNESS BHN	BEND TEST	IMPACTS
1	FT. LBF AVG @ -50 F (P) 16 FT. LBF MIN. A COMPLIANT COMPLIANT TO NACE MR 0103-2012.	200	MAX BHN (P)							
3	0.4600 X 96.000ME X 226.000 SCHEDULE B: 7208.51.00.93	N12822	A37	550	795 24					
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED									
	1 PC 2830 LBS 17B3243	N12822	A37					150		
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED									
	1 PC 2830 LBS 17B3244	N12822	A37					146		
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED									
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED									

CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	SI	CU	NI	V	CD	AL	DR	MO	TI	B	N	CA	CE
N12822	.21	1.34	.017	.003	.29	.01	.05	.028	.000	.042	.03	.00	.003	.0000			
N12824	.20	1.32	.017	.003	.30	.01	.05	.025	.000	.038	.02	.00	.002	.0000			

I certify the above to be correct as contained in the records of EVRAZ INC. NA By *[Signature]*
 Quality Controller



EVRAZ INC. NA
Evraz Oregon Steel 14400 N. Rivergate Blvd., Portland, Oregon 97203

REPORT OF CHEMICAL/PHYSICAL TESTS



SOLD TO

SAMUEL SON & COMPANY
2360 DIXIE ROAD
MISSISSAUGA, ON L4Y 1Z7
CANADA

SAMUEL METAL SERVICE LTD. *
701 15TH AVENUE
NISKU, AB T9Z 7E5
CANADA

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS
CARBON STEEL PRESSURE VESSEL QUALITY PLATE ASTM A516-15 GRADE 70 ASME SA516
GRADE 70 2015 PLATE NORMALIZED TESTS CUT FROM NORMALIZED PLATE NO WELD REPAIR.
PRESSURE VESSEL QUALITY, KILLED FINE GRAIN PRACTICE, LGVN 20 (continued)

CERTIFICATE NO.	DATE	PAGE
1542560	Mar 09, 2017	2
INSTR. NO.	DATE	
307962		
CUSTOMER ORDER NO.		
U 02349		
ISSUED NO.		
SHIPPING NO.	DATE	
1542560	03/09/2017	
CARRIER		
UNION PACIFIC		
CARRIER NO.		
TPXRB05195BT		

PHYSICAL PROPERTIES

ITEM	DESCRIPTION	HEAT NO.	SLAB	YIELD PSI X 100	TENSILE PSI X 100	% ELONG 8" 2"	% RA	HARDNESS BHN	BEND TEST	IMPACTS
1	FT. LBF AVG @ -50 F (P) 16 FT. LBF MIN. A COMPLIANT COMPLIANT TO NACE MR 0103-2012.	200	MAX BHN (P)		NACE MR 0103-2012		P. 2 ANNEX			
3	0.4600 X 96.000ME X 226.000									
	1 PC 2830 LBS	17B3237	A23					142		
	THE FOLLOWING PLATES WERE NORMALIZED AT	NI2824	1660	DEGS F	FOR 19	MINUTES	AND	AIR	COOLED	
	1 PC 2830 LBS	17B3238	A23					146		
	THE FOLLOWING PLATES WERE NORMALIZED AT	NI2824	1660	DEGS F	FOR 19	MINUTES	AND	AIR	COOLED	
	1 PC 2830 LBS	17B3239	A23					150		
	THE FOLLOWING PLATES WERE NORMALIZED AT	NI2824	1660	DEGS F	FOR 19	MINUTES	AND	AIR	COOLED	
	1 PC 2830 LBS	17B3240	A23					144		
	THE FOLLOWING PLATES WERE NORMALIZED AT	NI2824	1660	DEGS F	FOR 19	MINUTES	AND	AIR	COOLED	

CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	SI	CU	NI	V	CB	AL	CR	MO	Ti	B	N	CE	McGraw Hill Grain Size
NI2824	.20	1.32	.017	.003	.30	.01	.05	.025	.000	.038	.02	.00	.002	.00000			

HEATS INDICATED WITH (+) WERE MELTED & MANUFACTURED IN THE USA. HEATS INDICATED WITH (*) WERE ROLLED IN THE USA.

I certify the above to be correct as contained in the records of EVRAZ INC. NA By _____

[Signature]
Quality Coordinator



EVRAZ INC. NA
 EVRAZ Oregon Steel 14400 N. Rivergate Blvd., Portland, Oregon 97223

REPORT OF CHEMICAL/PHYSICAL TESTS

ISO 9001
 REGISTERED
 ISO 9001:2015 CERTIFIED

SOLD TO
 SANDER SON & COMPANY
 2360 DIXIE ROAD
 MISSISSAUGA, ON L4Y 1Z7
 CANADA

SANDER METAL SERVICE LTD. *
 701 15TH AVENUE
 MESSU, AB T9E 7L5
 CANADA

CERTIFICATE NO.	DATE	PAGE
1542560	Mar 09, 2017	3
MILL ORDER NO.	DATE	
307962		
CUSTOMER ORDER NO.		
T 02349		
JOB/REL NO.		
SHIPPING NO.	DATE	
1542560	03/09/2017	
CARRIER		
UNION PACIFIC		
CART/BLK NO.		
TRPX805195BL		

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS CARBON STEEL PRESSURE VESSEL QUALITY PLATE ASTM A516-15 GRADE 70 ASME SA516 GRADE 70 2015 PLATE NORMALIZED TESTS CUT FROM NORMALIZED PLATE NO WEIRD REPAIR. PRESSURE VESSEL QUALITY. KILLED FINE GRAIN PRACTICE. LGVN 20 (continued)

PHYSICAL PROPERTIES

ITEM NO.	DESCRIPTION	HEAT NO.	SLAB	YIELD PSY X100	TENSILE PSY X100	% ELONG 2"	P. 2 ANNEX	HARDNESS BHN	BEND TEST	IMPACTS
3	FT. LBF AVG @ -50 F (P) 16 FT. LBF MIN. A COMPLIANT COMPLIANT TO NACE MR 0103-2012.	200 MAX BHN	(P)							
0.4600 X 96.000ME X 226.000										
1 PC 2830 LBS	17B3241	N12824	A23	540	780 29	ICVN @ -50 DEG F 10.0mm	188 219 108 / 155.0	150		Et. Lbf
		N13501	A24							
THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED										
1 PC 2830 LBS	17B3234	N13501	A24					146		
THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED										
1 PC 2830 LBS	17B3235	N13501	A24					147		
THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED										
1 PC 2830 LBS	17B3236	N13501	A24					143		

CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	Si	CU	N	V	CB	Al	Cr	Mo	Ti	B	N	CE
N12824	20	1.32	.017	.003	.30	.01	.05	.025	.000	.038	.02	.00	.002	.0000		
N13501	19	1.35	.014	.004	.34	.01	.05	.026	.000	.040	.02	.00	.004	.0005		

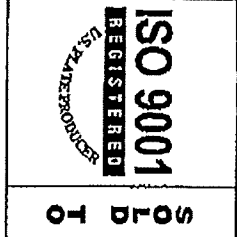
I certify the above to be correct as contained in the records of EVRAZ INC. NA By _____

[Signature]
 Quality Coordinator



EVRAZ INC. NA
8742 Oregon Steel 14400 N. Rivergate Blvd., Portland, Oregon 97208

REPORT OF CHEMICAL/PHYSICAL TESTS



SOLD TO

SAMUEL SON & COMPANY
2360 DIXIE ROAD
MISSISSAUGA, ON L4Y 1Z7
CANADA

SAMUEL METAL SERVICE LTD. *
701 15TH AVENUE
NISKY, AB T9E 7L5
CANADA

CERTIFICATE NO.	DATE	PAGE
1542562	Mar 09, 2017	1
MOI ORDER NO.	DATE	
307962		
CUSTOMER ORDER NO.		
U 02349		
JOB#RD NO.		
SHIPPING NO.	DATE	
1542562	03/09/2017	
CARRIER		
UNION PACIFIC		
CARRIER NO.		
TRP2805195NO		

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS
CARBON STEEL, PRESSURE VESSEL QUALITY PLATE ASTM A516-15 GRADE 70 ASME SA516
GRADE 70 2015 PLATE NORMALIZED TESTS CUT FROM NORMALIZED PLATE NO WELD REPAIR.
PRESSURE VESSEL QUALITY. KILLED FINE GRAIN PRACTICE. LCVN 20 (continued)

PHYSICAL PROPERTIES

HEAT NO.	SLAB	YIELD PSI X100	TENSILE PSI X100	% ELONG 8" 2"	% RA	HARDNESS BHN	BRID TEST	IMFACTS
HEAT NO. 200 MAX BHN								
FT. LBF AVG @ -50 F (P) 16 FT. LBF MIN. A COMPLIANT COMPLIANT TO NACE MR 0103-2012.								
3 0.4600 X 96.000ME X 226.000 SCHEDULE B:7208.51.00.93	NI2822 A37	550	795 24	LCVN @ -50 DEG F	10.0mm	120 113 69 / 100.7	FT. LBF	
THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED	1 PC 2830 LBS 17B3245 ^							
THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED	1 PC 2830 LBS 17B3246 ^							
THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED	1 PC 2830 LBS 17B3247 ^							

CHEMICAL ANALYSIS

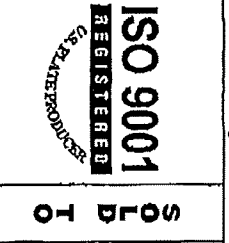
HEAT NO.	C	Mn	P	S	SI	CU	NI	V	GB	Al	Cr	Mo	Ti	B	N	Ce	CE
NI2822	21	1.34	.017	.003	29	.01	.05	.028	.000	.042	.03	.00	.003	.0000			
HEATS INDICATED WITH (+) WERE MELTED & MANUFACTURED IN THE USA. HEATS INDICATED WITH (^) WERE ROLLED IN THE USA.																	

I certify the above to be correct as contained in the records of EVRAZ INC. NA By *[Signature]* Quality Coordinator



EVRAZ INC. NA
14400 N. Rivergate Blvd., Portland, Oregon 97224

REPORT OF CHEMICAL/PHYSICAL TESTS



SOLD TO
SAMUEL SON & COMPANY
2360 DIXIE ROAD
MISSISSAUGA, ON L4X 1Z7
CANADA

SAMUEL METAL SERVICE LTD. *
701 15TH AVENUE
MISKU, AB T9E 7L5
CANADA

CERTIFICATE NO.	DATE	PAGE
1542562	Mar 09, 2017	3
MLL ORDER NO.	DATE	
307962		
CUSTOMER ORDER NO.		
U 02349		
JOBBER NO.		
SHIPPING NO.	DATE	
1542562	03/09/2017	
CARRIER		
UNION PACIFIC		
CARTON NO.		
TPPX805195NO		

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS
CARBON STEEL PRESSURE VESSEL QUALITY PLATE ASTM A516-15 GRADE 70 ASME SA516
GRADE 70 2015 PLATE NORMALIZED TESTS CUT FROM NORMALIZED PLATE NO WELD REPAIR.
PRESSURE VESSEL QUALITY. KILLED FINE GRAIN PRACTICE. LCVN 20 (continued)

PHYSICAL PROPERTIES

ITEM NO.	DESCRIPTION	HEAT NO.	SLAB	YIELD PSI X 100	TENSILE PSI X 100	% ELONG 2" & 2"	% RA	HARDNESS BHN	BEND TEST	IMPACTS
1	FT. LBF AVG @ -50 F (P) 16 FT. LBF MIN. A COMPLIANT COMPLIANT TO NACE MR 0103-2012.	200	MAX BHN	(P)	NACE	MR0175	P.2	ANNEX		
3	0.4600 X 96.000ME X 226.000									
	1 PC 2830 LBS	17B3250	^	N12824	A37	DEGS F	FOR 1P	MINUTES AND AIR	COOLED	156
	THE FOLLOWING PLATES WERE NORMALIZED AT									
	1 PC 2830 LBS	17B3251	^	N12824	A37	DEGS F	FOR 1P	MINUTES AND AIR	COOLED	154
	THE FOLLOWING PLATES WERE NORMALIZED AT									
	1 PC 2830 LBS	17B3252	^	N12824	A37	DEGS F	FOR 1P	MINUTES AND AIR	COOLED	152
	THE FOLLOWING PLATES WERE NORMALIZED AT									
	1 PC 2830 LBS	17B3253	^	N12824	A37	DEGS F	FOR 1P	MINUTES AND AIR	COOLED	154
	THE FOLLOWING PLATES WERE NORMALIZED AT									

CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	SI	CU	NI	V	CB	AL	CR	MG	TI	B	N	CA	CE
N12824	0.20	1.32	0.017	0.003	0.30	0.01	0.05	0.025	0.000	0.038	0.02	0.00	0.002	0.0000			
HEATS INDICATED WITH (+) WERE MELTED & MANUFACTURED IN THE USA. BEATS INDICATED WITH (*) WERE ROLLED IN THE USA.																	

I certify the above to be correct as contained in the records of EVRAZ INC. NA By _____

[Signature]
Quality Coordinator

REPORT OF CHEMICAL/PHYSICAL TESTS

ISO 9001
 REGISTERED
 SOLD TO

SAMUEL SON & COMPANY
 2360 DIXIE ROAD
 MISSISSAUGA, ON L4Y 1Z7
 CANADA

SAMUEL METAL SERVICE LTD. *
 701 15TH AVENUE
 NISKI, AB T9E 7L5
 CANADA

CERTIFICATE NO.	DATE	PAGE
1542562	Mar 09, 2017	4
MAIL ORDER NO.	DATE	
307962		
CUSTOMER ORDER NO.		
U 02349		
ORDER NO.		
SHIPPING NO.	DATE	
1542562	03/09/2017	
CARRIER		
UNION PACIFIC		
CARRIER NO.		
TRPXB05195NO		

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS
 CARBON STEEL PRESSURE VESSEL QUALITY PLATE ASTM A516-15 GRADE 70 ASME SA516
 GRADE 70 2015 PLATE NORMALIZED TESTS CUT FROM NORMALIZED PLATE NO WELD REPAIR.
 PRESSURE VESSEL QUALITY. KILLED FINE GRAIN PRACTICE. LCVN 20 (continued)

PHYSICAL PROPERTIES

ITEM	DESCRIPTION	HEAT NO.	SLAB	YIELD PSI X 100	TENSILE PSI X 100	% ELONG 1 1/2"	% RA P.2 ANNEX	HARDNESS BHN	BEND TEST	IMPACTS
1	1 PC 2830 LBS	17B3257	A22	560	790 29	LCVN @ -50 DEG F FOR 19 MINUTES AND AIR COOLED	10.0mm	155	95 142 124 / 120.3	Ft. Lbf
2	1 PC 2830 LBS	N12824	A22	560	790 29	LCVN @ -50 DEG F FOR 19 MINUTES AND AIR COOLED	10.0mm	154	188 219 108 / 155.0	Ft. Lbf
3	1 PC 2830 LBS	N13496	A24	540	780 29	LCVN @ -50 DEG F FOR 19 MINUTES AND AIR COOLED	10.0mm	147		
4	1 PC 2830 LBS	N13501	A24	540	780 29	LCVN @ -50 DEG F FOR 19 MINUTES AND AIR COOLED	10.0mm	147		

CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	Si	Cu	Ni	V	Co	Al	Cr	Mo	Ti	B	N	Ca	CE
N12824	20	1.32	.017	.003	.30	.01	.05	.025	.000	.038	.02	.00	.002	.0000			
N13496	20	1.31	.014	.003	.32	.01	.05	.023	.000	.032	.02	.00	.003	.0000			
N13501	19	1.35	.014	.004	.34	.01	.05	.026	.000	.040	.02	.00	.004	.0005			

I certify the above to be correct as contained in the records of EVRAZ INC. NA By _____

[Signature]
 Quality Coordinator



EVRAZ INC NA
14400 N. Shogren Blvd., Portland, Oregon 97203

REPORT OF CHEMICAL/PHYSICAL TESTS

ISO 9001
REGISTERED
ES PLATE PRODUCER

SOLD TO
SAMUEL SON & COMPANY
2360 DIXIE ROAD
MISSISSAUGA, ON L4Y 1Z7
CANADA

SAMUEL METAL SERVICE LTD. *
701 15TH AVENUE
NISKYU, AB T9E 7J5
CANADA

CERTIFICATE NO.	DATE	PAGE
1542562	Mar 09, 2017	5
MAIL ORDER NO.	DATE	
307962		
CUSTOMER ORDER NO.		
U 02349		
JOB/REQ. NO.		
SHIPPING NO.	DATE	
1542562	03/09/2017	

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS CARBON STEEL PRESSURE VESSEL QUALITY PLATE ASTM A516-15 GRADE 70 ASME SA516 GRADE 70 2015 PLATE NORMALIZED TESTS CUT FROM NORMALIZED PLATE NO WELD REPAIR. PRESSURE VESSEL QUALITY. KILLED FINE GRAIN PRACTICE. LCVN 20 (continued)

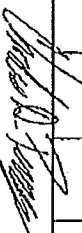
PHYSICAL PROPERTIES

HEAT NO.	SLAB	YIELD PSI X 100	TENSILE PSI X 100	% ELONG 8"	% RA	HARDNESS BHN	BEND TEST	IMPACTS
HEAT NO. 200 MAX	BEN	(P)	NACE	HEAD 175	P-2	ANNEX		
3	0.4600 X 96.000ME X 226.000							
1 PC	2830 LBS	17B3232	N13501	A24		146	COOLED	
THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED								
1 PC	2830 LBS	17B3233	N13501	A24		139	COOLED	
THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED								
1 PC	2830 LBS	17B3228	N13501	A25		149	COOLED	
THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED								
1 PC	2830 LBS	17B3229	N13501	A25		145	COOLED	

CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	SI	CU	N	V	CD	AL	CR	MO	TI	B	N	CA	CE
N13501	19	1.35	.014	.004	.34	.01	.05	.026	.000	.040	.02	.00	.004	.0005			

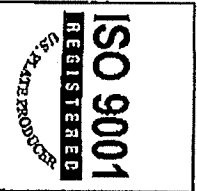
HEATS INDICATED WITH (+) WERE MELTED & MANUFACTURED IN THE USA. HEATS INDICATED WITH (✓) WERE ROLLED IN THE USA.

I certify the above to be correct as contained in the records of EVRAZ INC. NA BY  Quality Coordinator



EVRAZ INC. NA
 14400 N. Rivergate Blvd., Portland, Oregon 97223

REPORT OF CHEMICAL/PHYSICAL TESTS



SOLD TO

SAMUEL SON & COMPANY
 2360 DIXIE ROAD
 MISSISSAUGA, ON L4Y 1Z7
 CANADA

SAMUEL METAL SERVICE LTD. *
 701 15TH AVENUE
 NISKU, AB T9E 7L5
 CANADA

CERTIFICATE NO.	DATE	PAGE
1542562	Mar 09, 2017	6
NULL ORDER NO.	DATE	
307962		
CUSTOMER ORDER NO.		
T 02349		
JOBREQ NO.		
SHIPPING NO.	DATE	
1542562	03/09/2017	

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS
 CARBON STEEL PRESSURE VESSEL QUALITY PLATE ASTM A516-15 GRADE 70 ASME SA516
 GRADE 70 2015 PLATE NORMALIZED TESTS CUT FROM NORMALIZED PLATE NO WELD REPAIR.
 PRESSURE VESSEL QUALITY, KILLED FINE GRAIN PRACTICE, LGVN 20 (continued)

PHYSICAL PROPERTIES

ITEM	DESCRIPTION	HEAT NO.	SLAB	YIELD PSI X 100	TENSILE PSI X 100	% ELONG 8" 2"	% RA	HARDNESS BHN	BEND TEST	IMPACTS
1	1/2" LBF AVG @ -50 F (P) 16 FT. LBF MIN. A COMPLIANT COMPLIANT TO NACE MR 0103-2012.	200	MAX BHN (P).		NACE MR0175	P. 2	ANNEX			
3	0.4600 X 96.000ME X 226.000 THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED									
	1 PC 2830 LBS	17B3230	A25	545	790	30		153		
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED									
	1 PC 2830 LBS	17B3225	A23		LGVN @ -50 DEG F	10.0mm		154		
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 19 MINUTES AND AIR COOLED									
	1 PC 2830 LBS	17B3256	A23					152		

CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	SI	Cu	NI	V	CB	Al	Cr	Mo	Ti	B	N	C2	CE
N13501	.19	0.35	0.04	0.04	0.34	0.01	0.05	0.026	0.000	0.040	0.02	0.00	0.004	0.0005			
N13503	.20	0.32	0.018	0.005	0.33	0.01	0.05	0.024	0.000	0.050	0.02	0.00	0.003	0.0000			

I certify the above to be correct as contained in the records of EVRAZ INC. NA By _____

[Signature]
 Quality Coordinator



EVRAZ INC. NA
Evrar Oregon Street 14401 N. Rivergate Blvd., Portland, Oregon 97203

REPORT OF CHEMICAL/PHYSICAL TESTS



Sold To

SAMUEL SON & COMPANY
2360 DIXIE ROAD
MISSISSAUGA, ON L4Y 1Z7
CANADA

SAMUEL METAL SERVICE LTD. *
701 15TH AVENUE
NISKU, AB T9E 7L5
CANADA

CERTIFICATE NO.	DATE	PAGE
1542562	Mar 09, 2017	7
MAIL ORDER NO.	DATE	
307962		
CUSTOMER ORDER NO.		
U 02349		
JOBREQ. NO.		

SHIPPING NO.	DATE
1542562	03/09/2017

CARRIER
UNION PACIFIC
CARR/BUKNO
TTPX805195NO

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS CARBON STEEL PRESSURE VESSEL QUALITY PLATE ASTM A516-15 GRADE 70 ASME SA516 GRADE 70 2015 PLATE NORMALIZED TESTS CUT FROM NORMALIZED PLATE NO WELD REPAIR. PRESSURE VESSEL QUALITY. KILLED FINE GRAIN PRACTICE. LCVN 20 (continued)

PHYSICAL PROPERTIES

HEAT NO.	SLAB	YIELD	TENSILE	% ELONG	% RA	HARDNESS	BEND	IMPACTS
		PSI X 100	PSI X 100	8" 2"		BHN	TEST	
PT. 1BF AVG @ -50 F (P)	16 FT. 1BF MTN.	200 MAX BHN	(P)	NACE ME0175	P. 2 ANNEX			
A COMPLIANT COMPLIANT TO NACE MR 0103-2012.								
19 PCS 53770 LBS TOTALS								

CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	SI	CU	NI	V	CB	AL	CR	MO	TI	B	N	CA	CE
.....	END OF REPORT	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

I certify the above to be correct as contained in the records of EVRAZ INC. NA By _____

[Signature]
Quality Coordinator