



EVRAZ INC. NA

Evraz Oregon Steel 14400 N. Rivergate Blvd., Portland, Oregon 97203

REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1327275	Sep 27, 2013	1
MILL ORDER NO.	DATE	
268903		
CUSTOMER ORDER NO.		
V01446		
JOB/REQ. NO.		
SHIPPING NO.	DATE	
1327275	09/27/2013	
CARRIER		
BURLINGTON NORTHERN		
CAR/TRUCK NO.		
CW6047		

ISO 9001

REGISTERED

U.S. PLATE PRODUCER

SOLD TO

LEECO STEEL LLC
1011 WARRENVILLE ROAD
SUITE 500
LISLE, IL 60532
USA

LEECO STEEL LLC
1000 E BOUNDARY RD
PORTAGE, IN 46368

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS
CARBON PRESSURE VESSEL QUALITY ASTM A516-10 GRADE 70 ASME SA516 GRADE 70
2010/11A ADD. NORMALIZED NO WELD REPAIR. PRESSURE VESSEL QUALITY. LCVN 20
FT.LBF AVG @ -50 F (P).

PHYSICAL PROPERTIES

ITEM NO	DESCRIPTION	HEAT NO.	SLAB	YIELD PSI X 100	TENSILE PSI X 100	% ELONG 8" 2"	% RA	HARDNESS BHN	BEND TEST	IMPACTS
1	2.5000 X 100.000ME X 420.000 SCHEDULE B: 7208.51.00.93 PT# 250100420A516-70N									
		^ NW8283	A21	465	750	34				
					LCVN @ -50 DEG F	10.0mm				66 63 20 / 49.7 ft.lbf
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 205 MINUTES AND AIR COOLED									
	1 PC 29778 LBS 13J2592	^ NW8283	A21							
2	2.7500 X 100.000ME X 420.000 SCHEDULE B: 7208.51.00.93 PT# 275100420A516-70N									
		^ NW9548	A28	479	745	34				
					LCVN @ -50 DEG F	10.0mm				32 39 45 / 38.7 ft.lbf
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 218 MINUTES AND AIR COOLED									
	1 PC 32756 LBS 13J2594	^ NW9548	A28							

CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	Si	Cu	Ni	V	Cb	Al	Cr	Mo	Ti	B	N	Ca			CE	McQuaid Ehn Grain Size
NW8283	.19	1.30	.012	.004	.30	.01	.05	.026	.005	.039	.02	.00	.002	.0000						
NW9548	.19	1.28	.012	.004	.29	.01	.05	.024	.005	.043	.03	.00	.002	.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 _____

Richard Deschand Quality Coordinator



EVRAZ INC. NA

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2010/11A ADD. NORMALIZED NO WELD REPAIR. PRESSURE VESSEL QUALITY. LCVN 20
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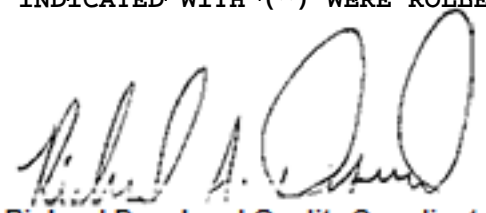
PHYSICAL PROPERTIES

ITEM NO	DESCRIPTION	HEAT NO.	SLAB	YIELD PSI X 100	TENSILE PSI X 100	% ELONG 8" 2"	% RA	HARDNESS BHN	BEND TEST	IMPACTS
2	2.7500 X 100.000ME X 420.000	NW9548	A29	485	750	35				
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 218 MINUTES AND AIR COOLED									
	1 PC 32756 LBS 13J2593	NW9548	A29							
3	2.2500 X 100.000ME X 420.000 SCHEDULE B: 7208.51.00.93 PT# 225100420A516-70N	NW8279	A33	462	755	34				
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 153 MINUTES AND AIR COOLED									
	1 PC 26800 LBS 13J2591	NW8279	A33							
	4 PCS 122090 LBS TOTALS									

CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	Si	Cu	Ni	V	Cb	Al	Cr	Mo	Ti	B	N	Ca			CE	McQuaid Ehn Grain Size
NW9548	.19	1.28	.012	.004	.29	.01	.05	.024	.005	.043	.03	.00	.002	.0000						
NW8279	.19	1.26	.009	.007	.31	.01	.05	.023	.005	.053	.03	.00	.003	.0000						
HEATS INDICATED WITH (+) WERE MELTED & MANUFACTURED IN THE USA. HEATS INDICATED WITH (^) WERE ROLLED IN THE USA.																				
..... END OF REPORT																				

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Richard Deschand Quality Coordinator