

21126MW003-1 NEMMES PRECISIO - Cert#: P20831CT001.NW6240.A30 - P.O.#: ANDREW

EVRAZ EVRAZ INC. NA
 Evraz Oregon Steel 14400 N. Rivergate Blvd., Portland, Oregon 97263

NW 6238

REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1259605	Sep 21, 2012	3
MILL ORDER NO.	DATE	
257670		
CUSTOMER ORDER NO.		
P20831CT001E		
JOB REQ. NO.		
SHIPPING NO.	DATE	
1259605	09/21/2012	
CARRIER		
UNION PACIFIC		
CAR/TRUCK NO.		
BLUE		

ISO 9001
 REGISTERED
 U.S. PLATE PRODUCER

SOLD TO

WILKINSON STEEL & METALS INC [EDMN]
 ATTN: CATHY STEPANIUK
 9525 60 AVE
 EDMONTON, AB T6E 0C3
 CANADA

WILKINSON STEEL AND METALS INC - ED
 9525 60 AVE
 EDMONTON, AB T6E 0C3
 CANADA

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS
 BOB CARBON PRESSURE VESSEL QUALITY ASTM A516-06 GRADE 70 ASME SA516 GRADE 70
 2010/11A ADD. NORMALIZED NACE MR 0175/ISO15156-2 ANNEX A PAR. 2.1.2 COMPLIANT
 NO WELD REPAIR. PRESSURE VESSEL QUALITY. KILLED FINE GRAIN (continued)

PHYSICAL PROPERTIES										
QTY	DESCRIPTION	HEAT NO.	SLAB	YIELD PSI X 100	TENSILE PSI X 100	% ELONG 8" 2"	% RA	HARDNESS BHN	BEND TEST	IMPACTS
3	PRACTICE. LCVN 20 FT.LBF AVG @ -50 F (P) 0.5000 X 96.000ME X 480.000	16	FT.LBF MIN.	200	MAX	BEN (P).				
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 20 MINUTES AND AIR COOLED									
	1 PC 6534 LBS 12J5705 ^	NW6238	A38					159		
			A39	540	775	27				
	LCVN @ -50 DEG F 10.0mm 94 60 51 / 68.3 ft.lbf									
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 20 MINUTES AND AIR COOLED									
	1 PC 6534 LBS 12J5703 ^	NW6238	A39					158		
	THE FOLLOWING PLATES WERE NORMALIZED AT 1660 DEGS F FOR 20 MINUTES AND AIR COOLED									
	1 PC 6534 LBS 12J5704 ^	NW6238	A39					148		
	8 PCB 47373 LBS TOTALS									

CHEMICAL ANALYSIS																	
HEAT NO.	C	Mn	P	S	Si	Cu	Ni	V	Co	Al	Cr	Mo	Ti	B	N	Ca	CE
NW6238	20	1.35	.012	.005	.33	.01	.05	.026	.005	.042	.02	.00	.002	.0000			
HEATS INDICATED WITH (+) WERE MELTED & MANUFACTURED IN THE USA. HEATS INDICATED WITH (^) WERE ROLLED IN THE USA.																	
..... END OF REPORT																	

[Signature]

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