

REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1535086	Jan 19, 2017	1
MILL ORDER NO.	DATE	
305016		
CUSTOMER ORDER NO.		
280492		
JOB/REQ. NO.		
SHIPPING NO.	DATE	
1535086	01/19/2017	
CARRIER		
UNION PACIFIC		
CAR/TRUCK NO.		
TTPX804751		

ISO 9001 REGISTERED
U.S. PLATE PRODUCER

SOLD TO

NORTH SHORE SUPPLY COMPANY
PO BOX 9940
HOUSTON, TX 77213
USA

NORTH SHORE SUPPLY COMPANY
PO BOX 9940
HOUSTON, TX 77213
USA

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS CARBON STRUCTURAL QUALITY PLATE ASTM A36-14/ASME SA36 2015 ABS GR A/B A131 A/B NO WELD REPAIR. KILLED FINE GRAIN PRACTICE. .80 MIN MN, 1.20 MAX MN, REPORT ALL RESIDUALS PER SA20 TABLE 1(7.1.1).

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
WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED TO THE APPLICABLE SPECIFICATION AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN BUREAU OF SHIPPING RULES WITH SATISFACTORY RESULTS.										
2	1.0000 X 96.000ME X 480.000	^ N12340		426 432	675 670	31 33				
	1 PC 13068 LBS		A38		LCVN @	32 DEG F	10.0mm	208	219 176 /	201.0 ft.lbf
3	1.2500 X 96.000ME X 480.000	^ N12523		406	660	31				
	1 PC 16335 LBS		A24		LCVN @	32 DEG F	10.0mm	217	217 226 /	220.0 ft.lbf
5	1.5000 X 96.000ME X 480.000	^ N12504		405	700	29				
	1 PC 19602 LBS		A28		LCVN @	32 DEG F	10.0mm	118	223 217 /	186.0 ft.lbf
	3 PCS 49005 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
^N12340	.14	.85	.010	.009	.19	.01	.05	.003	.000	.038	.03	.00						
^N12523	.14	.85	.013	.007	.23	.01	.05	.004	.000	.042	.03	.00						
^N12504	.15	.86	.012	.005	.21	.01	.06	.006	.000	.038	.02	.00						

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

Handwritten signature in blue ink.

..... END OF REPORT

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

Quality Coordinator