

REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1532102	Dec 28, 2016	1
MILL ORDER NO.	DATE	
304961		
CUSTOMER ORDER NO.		
280492		
JOB/REQ. NO.		
SHIPPING NO.		
1532102	DATE	
	12/28/2016	
CARRIER		
UNION PACIFIC		
CAR/TRUCK NO.		
SSW87843		

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.									
1	0.5000 X 120.000ME X 480.000									
	2 PCS 16336 LBS	^ N12153		438	660	39				
	2 PCS 16336 LBS	^ N12160		434	660	38				
	2 PCS 16336 LBS	^ N12348		443	665	38				
	2 PCS 16336 LBS	^ N12351		443	660	39				
	3 PCS 24504 LBS	^ N12685		428	650	41				
	3 PCS 24504 LBS	^ N12688		430	655	39				



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
^N12153	.14	.86	.014	.003	.21	.01	.06	.007	.000	.037	.03	.00						
^N12160	.15	.86	.013	.005	.22	.01	.06	.005	.000	.033	.03	.00						
^N12348	.14	.86	.009	.006	.21	.01	.05	.006	.000	.034	.03	.00						
^N12351	.14	.87	.013	.007	.20	.01	.05	.007	.000	.033	.03	.00						
^N12685	.14	.84	.016	.003	.22	.01	.05	.009	.000	.037	.03	.00						
^N12688	.13	.85	.012	.003	.23	.01	.04	.007	.000	.039	.02	.00						

Handwritten signature in blue ink.


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

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1	0.5000 X 120.000ME X 480.000									
	3 PCS 24504 LBS	^ N12690		457	665	41				
3	0.6250 X 120.000ME X 480.000									
	2 PCS 20420 LBS	^ N12647		433	650	42				
	1 PC 10210 LBS	^ N12649		430	655	34				
	<u>20 PCS 169486 LBS TOTALS</u>									



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
^N12690	.14	.86	.014	.003	.24	.01	.05	.014	.000	.041	.03	.00						
^N12647	.14	.88	.013	.003	.23	.02	.05	.009	.000	.025	.02	.00						
^N12649	.15	.89	.017	.004	.26	.02	.05	.008	.000	.036	.02	.00						

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REVISED 9/5/2017

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