


## REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1639573	Nov 28, 2018	1

	SOLD TO	NORTH SHORE SUPPLY COMPANY PO BOX 9940 HOUSTON, TX 77213 USA	NORTH SHORE SUPPLY COMPANY PO BOX 9940 HOUSTON, TX 77213 USA	MILL ORDER NO. 326839	DATE		
				CUSTOMER ORDER NO. 306202			
				JOB/REQ. NO.			
		SHIPPING NO. 1639573	DATE 11/28/2018				

THIS MATERIAL HAS BEEN MANUFACTURED, TESTED AND FOUND TO MEET THE SPECIFICATIONS AND PURCHASE ORDER REQUIREMENTS  
 CARBON STRUCTURAL QUALITY PLATE ABS GRADE A/B KILLED FINE GRAIN ASTM A131 GRADE  
 A/B ASTM A36-14 ASME SA36-17 NO WELD REPAIR. KILLED FINE GRAIN PRACTICE. .80  
 MIN MN, 1.20 MAX MN, .

CARRIER UNION PACIFIC
CAR/TRUCK NO. CW6091

### 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
4	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. 0.2500 X 120.000ME X 480.000									
	2 PCS 8168 LBS	^ N19123		462 492	660 655	30 31				
	1 PC 4084 LBS	^ N19130		479 505	660 685	29 28				
	5 PCS 20420 LBS	^ N19525		490	710	26				
	5 PCS 20420 LBS	^ N19744		466	660	30				



### 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
^N19123	.14	.85	.011	.002	.20	.01	.05	.002	.000	.044	.03	.00						
^N19130	.13	.83	.008	.003	.25	.01	.05	.000	.000	.049	.04	.00						
^N19525	.18	.91	.014	.005	.27	.01	.05	.003	.000	.031	.02	.00						
^N19744	.14	.86	.013	.006	.20	.01	.05	.004	.000	.042	.02	.00						

HEATS INDICATED WITH (+) WERE MELTED & MANUFACTURED IN THE USA. HEATS INDICATED WITH (^) WERE ROLLED IN THE USA.  
 N19123 (Country of Origin: RUSSIA)  
 N19130 (Country of Origin: RUSSIA)  
 N19525 (Country of Origin: RUSSIA)  
 N19744 (Country of Origin: RUSSIA)

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

By

Aaron Capps

Quality Coordinator