


REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1596437	Mar 15, 2018	1
MILL ORDER NO.	DATE	
319504		
CUSTOMER ORDER NO.		
298397		
JOB/REQ. NO.		
SHIPPING NO.	DATE	
1596437	03/15/2018	
CARRIER		
UNION PACIFIC		
CAR/TRUCK NO.		
SSW88093		



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

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 HOUSTON, TX 77213
 USA

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, .

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	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.									
	0.1875 X 96.000ME X 480.000									
	1 PC 2450 LBS	^ N16850		483	680	27				
	8 PCS 19600 LBS	^ N17182		433	630	30				
				489	670	28				
	6 PCS 14700 LBS	^ N17198		491	665	27				
	3 PCS 7350 LBS	^ N17520		495	695	29				



CHEMICAL ANALYSIS

HEAT NO.	C	Mn	P	S	Si	Cu	Ni	V	Cb	Al	Cr	Mo	Ti	B	N	Ca	CE	McQuig Ehn Grain Size
^N16850	.15	.88	.012	.006	.22	.01	.05	.004	.000	.036	.02	.00						
^N17182	.13	.85	.012	.005	.23	.01	.05	.003	.000	.040	.02	.00						
^N17198	.14	.84	.011	.006	.22	.01	.06	.000	.000	.041	.02	.00						
^N17520	.15	.87	.010	.003	.25	.01	.05	.000	.000	.038	.02	.00						

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