

## REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1639574	Nov 28, 2018	1



**SOLD TO**

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

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PO BOX 9940  
HOUSTON, TX 77213  
USA

MILL ORDER NO.	DATE
326840	
CUSTOMER ORDER NO.	
306202	
JOB/REQ. NO.	
SHIPPING NO.	DATE
1639574	11/28/2018
CARRIER	
UNION PACIFIC	
CAR/TRUCK NO.	
CW6091	

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
<p>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.</p>										
1	0.3125 X 120.000ME X 480.000 1 PC 5105 LBS	^ N19383		472 430	665 635	34 32				
3	0.3750 X 120.000ME X 480.000 3 PCS 18378 LBS	^ N19337		466	660	30				
4	0.5000 X 120.000ME X 480.000 5 PCS 40840 LBS	^ N19342		468 454	655 645	29 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
^N19383	.14	.93	.015	.007	.23	.01	.05	.008	.000	.034	.02	.00						
^N19337	.13	.83	.011	.003	.22	.01	.05	.003	.000	.035	.03	.00						
^N19342	.13	.87	.011	.003	.24	.01	.05	.005	.000	.032	.03	.00						

HEATS INDICATED WITH (+) WERE MELTED & MANUFACTURED IN THE USA. HEATS INDICATED WITH (^) WERE ROLLED IN THE USA.  
 N19383 (Country of Origin: RUSSIA)  
 N19337 (Country of Origin: RUSSIA)  
 N19342 (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