


REPORT OF CHEMICAL/PHYSICAL TESTS

CERTIFICATE NO.	DATE	PAGE
1632634	Oct 13, 2018	1
MILL ORDER NO.	DATE	
326839		
CUSTOMER ORDER NO.		
306202		
JOB/REQ. NO.		
SHIPPING NO.	DATE	
1632634	10/13/2018	
CARRIER		
UNION PACIFIC		
CAR/TRUCK NO.		
TTPX82119		



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

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HOUSTON, TX 77213
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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
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.										
3	0.2500 X 96.000ME X 480.000 8 PCS 26136 LBS	^ N19328		505 540 525 515	700 735 705 690	26 30 32 27		(OUTER) (OUTER) (INNER) (INNER)		
5	0.3125 X 96.000ME X 480.000 17 PCS 69428 LBS	^ N19315		585 496	695 650	29 31		(OUTER) (INNER)		
	17 PCS 69428 LBS	^ N19317		575	725	27		(OUTER)		



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
^N19328	.15	.88	.011	.007	.21	.01	.05	.000	.000	.037	.02	.00						
^N19315	.14	.86	.013	.006	.20	.01	.05	.003	.000	.034	.02	.00						
^N19317	.14	.88	.017	.007	.22	.01	.05	.006	.000	.034	.02	.00						

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