



430 Hamilton Rd Bossier City, LA 71111

MATERIAL TEST REPORT

Product: CA 5.500 0.304 17.00 P110HC LTC R3 SMLS CENT PRIME		Thread Type: LTC		Sales Order: SO0001414																	
Heat: YD03547		Lot: YD03547-436		Purchase Order: SBB-0062																	
Specification: API 5CT Latest Edition																					
-----Sold To ----- SB NAVITAS 480, 435 - 4TH AVE SW CALGARY AB Calgary , CA																					
CHEMICAL ANALYSIS																					
	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	AL	V	B	Cb	Ti	Ca	N	O	CEQ	DI	PrM
HEAT	0.24	1.37	0.012	0.005	0.19	0.09	0.05	0.38	0.01		0.030	0.005	0.0015		0.030				0.557		
CHECK	0.240	1.386	0.009	0.003	0.195	0.081	0.043	0.389	0.012	0.009	0.032	0.007	0.0010		0.045	0.0002			0.560		
CHECK	0.245	1.352	0.009	0.003	0.187	0.080	0.044	0.375	0.010	0.008	0.029	0.006	0.0009		0.041	0.0006			0.556		
MECHANICAL PROPERTIES																					
<u>Test</u> 4W10589P T	<u>Type</u> Strip	<u>Size</u> 1"	<u>Orient</u> Long.	<u>Yield KSI</u> 114.01	<u>Tensile KSI</u> 128.55	<u>Elong in 2"</u> 23.05	<u>Y/T Ratio</u> 0.8869		<u>Collapse, PSI</u> 12200		<u>Hydrotest, PSI</u> 11600										
								<u>Flattening</u> OK		<u>Hold Time:</u> 5 SEC											
				Impact Tests		Hardness															
<u>Test</u>	<u>Loc</u>	<u>Size</u>	<u>Temp</u>	<u>Notch</u>	<u>Energy (AVG)</u>	<u>%Shear</u>	<u>Scale</u>	<u>Lat Exp.</u>	<u>I.D.</u>	<u>M.W.</u>	<u>O.D.</u>	<u>Mean #</u>	<u>Scale</u>	<u>I.D.</u>	<u>M.W.</u>	<u>O.D.</u>	<u>Mean #</u>				
	L	3/4	32		52	90		HRC				28.08									
Inspections Performed				Remarks				From the office of:													
<u>Test</u>	<u>Type</u>	<u>Pass</u>	<u>Cal.</u>	<u>Test</u>	<u>Type</u>	<u>Pass</u>	Release #		SO0001414		<div>Jeremy Goss</div> <div>This is to certify that the product described with was manufactured, supplied, tested, and/or inspected in accordance with the specification and the order, and fulfills the requirements in such respect.</div>										
						Processor:		BMG													
						W/O #:		4611-010													
						Rolled material supplied by:		BMG													