


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: YD03520		Lot: YD03520-451		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	0.26	1.39	0.012	0.006	0.21	0.07	0.05	0.38	0.01		0.03	0.005	0.0016		0.03					0.579		
CHECK	0.258	1.389	0.014	0.003	0.255	0.068	0.045	0.395	0.018	0.004	0.033	0.010	0.0011		0.047	0.0009				0.581		
CHECK	0.265	1.394	0.014	0.003	0.256	0.068	0.044	0.396	0.018	0.005	0.033	0.010	0.0012		0.047	0.0010				0.589		
MECHANICAL PROPERTIES																						
<u>Test</u> 4E10707P T	<u>Type</u> Strip	<u>Size</u> 1"	<u>Orient</u> Long.	<u>Yield KSI</u> 118.66	<u>Tensile KSI</u> 130.94	<u>Elong in 2"</u> 21.45	<u>Y/T Ratio</u> 0.9062		<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		77	90		HRC				27.03										
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													
						Processor:		BMG														
						W/O #:		4611-010														
						Rolled material supplied by:		BMG														
												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.										