




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: YD03648		Lot: YD03648-448		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	0.25	1.4	0.013	0.005	0.18	0.06	0.06	0.4	0.02		0.03	0.004	0.0015		0.031				0.576		
CHECK	0.250	1.412	0.007	0.003	0.200	0.059	0.043	0.393	0.013	0.005	0.033	0.006	0.0013		0.045	0.0003			0.574		
CHECK	0.253	1.408	0.008	0.004	0.204	0.060	0.043	0.393	0.013	0.005	0.033	0.006	0.0013		0.047	0.0008			0.576		
MECHANICAL PROPERTIES																					
<u>Test</u> 4W10704P T	<u>Type</u> Strip	<u>Size</u> 1"	<u>Orient</u> Long.	<u>Yield KSI</u> 118.75	<u>Tensile KSI</u> 128.14	<u>Elong in 2"</u> 22.1	<u>Y/T Ratio</u> 0.9267		Collapse, PSI 12200 Flattening OK		Hydrotest, 11600 PSI Hold Time: 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		81	90		HRC				27.82									
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.									