




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: YD03662		Lot: YD03662-449		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	1.4	0.01	0.001	0.2	0.07	0.06	0.4	0.02		0.032	0.006	0.0018		0.032				0.567		
CHECK	0.247	1.391	0.006	-0.001	0.203	0.070	0.055	0.390	0.017	0.005	0.033	0.007	0.0010		0.044	0.0003			0.569		
CHECK	0.249	1.392	0.007	-0.000	0.203	0.070	0.055	0.390	0.017	0.005	0.032	0.007	0.0010		0.044	0.0003			0.572		
MECHANICAL PROPERTIES																					
<u>Test</u> 4E10705P T	<u>Type</u> Strip	<u>Size</u> 1"	<u>Orient</u> Long.	<u>Yield KSI</u> 116.5	<u>Tensile KSI</u> 125.95	<u>Elong in 2"</u> 21.8	<u>Y/T Ratio</u> 0.9250		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				27.67									
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.									