

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:	YD03626	Lot:	YD03626-418	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	1.41	0.015	0.006	0.21	0.10	0.05	0.38	0.01		0.029	0.004	0.0016		0.031				0.564		
CHECK	0.249	1.435	0.011	0.003	0.215	0.095	0.049	0.376	0.014	0.013	0.032	0.007	0.0008		0.046	0.0008			0.577		
CHECK	0.232	1.443	0.010	0.002	0.213	0.095	0.049	0.378	0.013	0.013	0.032	0.007	0.0007		0.046	0.0003			0.561		

MECHANICAL PROPERTIES																	
<u>Test</u>	<u>Type</u>	<u>Size</u>	<u>Orient</u>	<u>Yield KSI</u>	<u>Tensile KSI</u>	<u>Elong in 2"</u>	<u>Y/T Ratio</u>			Collapse, PSI		12200	Hydrotest, PSI		11600		
4L010378	Strip	1"	Long.	119.7	129.56	23.25	0.9239			Flattening		OK	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		78	90		HRC				28.58					

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.							