



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:	YD03285	Lot:	YD03285-467	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	1.41	0.014	0.004	0.23	0.09	0.09	0.39	0.02		0.029	0.005	0.0014		0.033				0.590		
CHECK	0.268	1.382	0.010	0.000	0.226	0.088	0.083	0.388	0.022	0.010	0.031	0.007	0.0013		0.045	0.0007			0.593		
CHECK	0.260	1.392	0.010	-0.000	0.231	0.086	0.044	0.397	0.018	0.005	0.033	0.007	0.0014		0.041	0.0005			0.585		

MECHANICAL PROPERTIES

Test	Type	Size	Orient	Yield KSI	Tensile KSI	Elong in 2"	Y/T Ratio	Collapse, PSI	12200	Hydrotest, PSI	11600
4L09425	Strip	1"	Long.	128.28	136.14	21.25	0.9423				
4L09444	Strip	1"	Long.	127.77	135.48	21	0.9431	Flattening	OK	Hold Time:	5 SEC

				Impact Tests			Hardness					
Test	Loc	Size	Temp	Notch	Energy (AVG)	%Shear	Scale	Lat Exp.	I.D.	M.W.	O.D.	Mean #
	L	3/4	32		64	90		HRC				30.64
								HRC				32.43

Inspections Performed	Remarks	From the office of:
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Test	Type	Pass	Cal.	Test	Type	Pass	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	