



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:	YD03548	Lot:	YD03548-413	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	1.37	0.015	0.001	0.22	0.09	0.07	0.40	0.02		0.032	0.004	0.0015		0.028				0.584		
CHECK	0.255	1.38	0.011	-0.002	0.217	0.082	0.066	0.401	0.019	0.009	0.037	0.006	0.0011		0.042	0.0006			0.580		
CHECK	0.261	1.38	0.012	-0.002	0.216	0.082	0.066	0.400	0.019	0.009	0.037	0.006	0.0011		0.041	0.0007			0.585		

MECHANICAL PROPERTIES

Test	Type	Size	Orient	Yield KSI	Tensile KSI	Elong in 2"	Y/T Ratio	Collapse, PSI	12200	Hydrotest, PSI	11600
4L010373	Strip	1"	Long.	120.65	131.86	22.25	0.9150				
4L010374	Strip	1"	Long.	125.81	134.69	23.95	0.9341	Flattening	OK	Hold Time:	5 SEC

				Impact Tests			Hardness				
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Test	Loc	Size	Temp	Notch	Energy (AVG)	%Shear	Scale	Lat Exp.	I.D.	M.W.	O.D.	Mean #	Scale	I.D.	M.W.	O.D.	Mean #
	L	3/4	32		78	90		HRC				27.22					
								HRC				29.03					

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	