

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:	YD03298	Lot:	YD03298-464	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	1.4	0.013	0.006	0.22	0.11	0.06	0.39	0.02		0.026	0.005	0.0015		0.031				0.588		
CHECK	0.255	1.388	0.011	0.003	0.208	0.110	0.063	0.381	0.018	0.006	0.030	0.007	0.0013		0.044	0.0001			0.579		
CHECK	0.258	1.375	0.011	0.004	0.209	0.109	0.063	0.380	0.018	0.006	0.030	0.007	0.0014		0.044	0.0004			0.579		

MECHANICAL PROPERTIES												Collapse, PSI				Hydrotest, PSI			
Test	Type	Size	Orient	Yield KSI	Tensile KSI	Elong in 2"	Y/T Ratio					12200				11600			
4L09422	Strip	1"	Long.	123.96	134.21	21.45	0.9236					Flattening				OK			
				Impact Tests			Hardness												

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		64	90		HRC				30.79					

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