MARK: Thanks for the note that these engines averages 5-10% fuel dilution. Universal averages show typical wear levels for the 1.3L at ~1,200 oil miles. Copper and lead were high, and both reading in this pattern show excessive wear at bearings. You noted that this engine was rebuilt about 10K miles ago, but bearings don't typically wear-in like other parts. Fuel may be softening the babbitt of the bearings, so watch your oil pressure. The 5.7 TBN shows lots of active additive left (1.0 is low). Resample at 2,000 miles on the next fill of oil.

MI/HR on Oil	4,000					
MI/HR on Unit	82,000	UNIT / LOCATION				UNIVERSAL
Sample Date	10/31/09	AVERAGES				AVERAGES
Make Up Oil Added	0 qts					
ALUMINUM	2	2				3
ALUMINUM CHROMIUM IRON	1	1				2
IRON	24	24				13
COPPER	22	22				4
LEAD	42	42				5
TIN	3	3				0
MOLYBDENUM	16	16				22
NICKEL	1	1				0
MANGANESE	0	0				5
SILVER	0	0				0
TITANIUM	0	0				0
POTASSIUM BORON SILICON SODIUM	3	3				3
BORON	14	14				11
SILICON	10	10				16
SODIUM	17	17				8
CALCIUM	2206	2206				1862
MAGNESIUM	10	10				14
PHOSPHORUS	758	758			_	629
ZINC	952	952				768
BARIUM	0					2

Values Should Be\*

	SUS Viscosity @ 210°F	57.8	79-97			
	cSt Viscosity @ 100°C	9.59	15.3-19.9			
S	Flashpoint in °F	285	>385			
H	Fuel %	5.0	<2.0			
R	Antifreeze %	0.0	0.0			
PE	Water %	0.0	<0.1			
30	Insolubles %	0.3	<0.6			
4	TBN	5.7				
	TAN					
	ISO Code					

<sup>\*</sup> THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE