



OIL REPORT

LAB NUMBER: [REDACTED]
REPORT DATE: 2/24/2015
CODE: 107/501

UNIT ID: 14 4RUNNER
CLIENT ID: [REDACTED]
PAYMENT: [REDACTED]

UNIT	MAKE/MODEL: Toyota 4.0L V-6 (1GR-FE)	OIL TYPE & GRADE: Toyota Synthetic 0W/20
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 9,765 Miles
	ADDITIONAL INFO:	

CLIENT	[REDACTED]	PHONE: [REDACTED]
		FAX:
		ALT PHONE:
		EMAIL: [REDACTED]

COMMENTS	KEITH: There's a lot of "stuff" in this oil, but nothing here is concerning. Most of the extra metal in this sample is from wear-in and the silicon here is from sealers. This stuff will wash out over the next few oil changes and eventually you should see numbers that resemble averages. Of course, averages for this engine are based on just 5,600 miles so if you're going to stick with longer runs, iron might always read a little high -- that's fine. The fuel contamination is probably just operational -- it's within limits at 0.8%. The TBN is still good at 2.0. Try up to 11,000 miles, if you want.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	9,765	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	9,765							
	Sample Date	02/16/15							
	Make Up Oil Added	0 qts							
	ALUMINUM	11		11					
	CHROMIUM	1		1					
	IRON	48		48					
	COPPER	303		303					
	LEAD	6		6					
	TIN	0		0					
	MOLYBDENUM	148		148					
	NICKEL	0		0					
	MANGANESE	4		4					
	SILVER	0		0					
	TITANIUM	48		48					
	POTASSIUM	7		7					
	BORON	5		5					
	SILICON	248		248					
	SODIUM	371		371					
	CALCIUM	1650		1650					
	MAGNESIUM	8		8					2015
	PHOSPHORUS	618		618					214
	ZINC	780		780					681
	BARIUM	15		15					791
									0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	50.9	46-57				
	cSt Viscosity @ 100°C	7.53	6.0-9.7				
	Flashpoint in °F	370	>385				
	Fuel %	0.8	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.3	<0.6				
	TBN	2.0	>1.0				
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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