



OIL REPORT

LAB NUMBER:
REPORT DATE: 9/10/2013
CODE: 20/501

UNIT ID:
CLIENT ID:
PAYMENT:

UNIT

EQUIP. MAKE/MODEL: Toyota 3.4L V-6 (5VZ-FE)
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Super Tech Synthetic 5W/30
OIL USE INTERVAL: 9,000 Miles

CLIENT

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

Lead went just a little higher in this sample, and although it's just over twice average, we're only talking about a total of 7 ppm and that's not a lot in the grand scheme of things. Other wear has stayed very steady as well, so now we know: 9,000 miles isn't too long to run the oil in your 4Runner. How long can you go? Resample at 11,000 total miles and we'll recheck wear. The TBN should still be okay. Insolubles are still very low--the oil filtration system is working well. No fuel or other contaminants found. This engine is still going strong!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	9,000	UNIT / LOCATION AVERAGES	7,820	6,718				UNIVERSAL AVERAGES
	MI/HR on Unit	156,441		144,985	117,151				
	Sample Date	8/20/2013		5/17/2012	6/12/2009				
	Make Up Oil Added	0 qts		0 qts	0 qts				
	ALUMINUM	4		3	2				
	CHROMIUM	0		0	0				
	IRON	5		6	6				
	COPPER	4		7	2				
	LEAD	7		5	5				
	TIN	1		0	0				
	MOLYBDENUM	77	60	57	86				80
	NICKEL	1	1	0	1				0
	MANGANESE	0	0	0	0				0
	SILVER	0	0	0	0				0
	TITANIUM	0	0	0	0				2
	POTASSIUM	3	2	0	0				2
	BORON	65	76	95	18				42
	SILICON	15	17	13	14				13
	SODIUM	21	22	49	10				59
	CALCIUM	2217	2204	2105	2346				1997
	MAGNESIUM	11	12	14	13				196
	PHOSPHORUS	695	676	712	571				704
	ZINC	779	774	728	772				839
	BARIIUM	0	0	0	0				0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	58.1	56-63	57.4	56.7			
	cSt Viscosity @ 100°C	9.67	9.1-11.3	9.48	9.28			
	Flashpoint in °F	395	>365	390	385			
	Fuel %	<0.5	<2.0	<0.5	<0.5			
	Antifreeze %	0.0	0.0	0.0	0.0			
	Water %	0.0	<0.1	0.0	0.0			
	Insolubles %	0.1	<0.6	0.3	0.3			
	TBN	1.4	>1.0	1.9	2.7			
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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