



OIL REPORT

LAB NUMBER:
REPORT DATE: 4/11/2013
CODE:

UNIT ID: 12 PRIUS
CLIENT ID:
PAYMENT:

UNIT	MAKE/MODEL: Toyota 1.5L 4-cyl (1NZ-FXE) (Prius)	OIL TYPE & GRADE: Toyota 0W-20
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 10,436 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS	GEORGE: Our overall finding in this report is that your Prius' engine is still maturing very nicely. Most metals (including iron, copper and lead) and silicon have all dropped pretty significantly since last time. The one exception is aluminum, which increased by a mere 2 ppm over this oil run. That may show a little extra piston wear, but at this point it's really nothing to get excited about. It should taper off in your next reports, and other metals should continue to improve as well. The TBN still was good at 2.3, so go up to 11,500 miles on your next report. Check back to monitor.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	10,436	UNIT / LOCATION AVERAGES	5,214	1,000				UNIVERSAL AVERAGES
	MI/HR on Unit	20,280		6,214	1,000				
	Sample Date	04/01/13		06/22/12	03/23/12				
	Make Up Oil Added	0 qts			0 qts				
	ALUMINUM	9	8	7	6				4
	CHROMIUM	1	1	0	0				0
	IRON	10	11	12	5				10
	COPPER	11	39	67	64				1
	LEAD	1	2	2	2				0
	TIN	2	2	1	2				1
	MOLYBDENUM	104	104	104	101				77
	NICKEL	1	1	1	0				0
	MANGANESE	1	2	2	2				0
	SILVER	0	0	0	0				0
	TITANIUM	0	0	0	0				1
	POTASSIUM	4	3	2	6				2
	BORON	3	4	4	3				48
	SILICON	45	121	196	182				14
	SODIUM	4	5	5	0				29
	CALCIUM	2295	2206	2116	2136				2212
	MAGNESIUM	10	13	15	24				88
	PHOSPHORUS	698	708	718	719				664
	ZINC	852	815	777	749				786
	BARIUM	1	3	4	4				0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	50.7	46-59	48.9	48.7			
	cSt Viscosity @ 100°C	7.49	6.0-10.2	6.93	6.87			
	Flashpoint in °F	380	>355	380	380			
	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 %	0.3	<0.6	0.2	0.1			
	TBN	2.3	>1.0	3.7	8.0			
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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