



OIL REPORT

LAB NUMBER: F49443

UNIT ID: 12 PRIUS

REPORT DATE: 4/11/2013

CLIENT ID: 36647

CODE: 20/461

PAYMENT: CC: AmEx (Bulk)

UNIT

MAKE/MODEL: Toyota 1.5L 4-cyl (1NZ-FXE) (Prius)
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Toyota 5W/20
OIL USE INTERVAL: 10,436 Miles

CLIENT

GEORGE BALEJIAN
24279 HATTERAS ST
WOODLAND HILLS, CA 91367

PHONE:
FAX:
ALT PHONE:
EMAIL: superjetpilot95@gmail.com

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.

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			
	CHROMIUM	1		1	0	0			
	IRON	10		11	12	5			
	COPPER	11		39	67	64			
	LEAD	1		2	2	2			
	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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