



P.O. NUMBER Prepaid
CODE: 63/21252/121

UNIT NUMBER 1
REPORT DATE: 1/19/06
LAB NUMBER: C64622

OIL REPORT

CLIENT	CONTACT:	PHONE: (732) 269-6983
	NAME: SCOTT CHASE	FAX:
	ADDRESS: 8 TIMBERLINE RD	E-MAIL: scott@scott-chase.com
	BAYVILLE, NJ 08721	

UNIT	EQUIPMENT MAKE: Toyota	OIL USE INTERVAL: 12,019 Miles
	EQUIPMENT MODEL: 1.5L 4cyl	OIL TYPE & GRADE: Mobil 1 15W/30 (gas)
	FUEL TYPE: Gasoline (Unleaded)	MAKE-UP OIL ADDED: 0 qts
	ADDITIONAL INFO: Prius	

COMMENTS	SCOTT: The universal averages column shows typical wear from this type of engine after 4700 miles on the oil. This oil run of 12,019 miles had put some stress on the engine. The high amount of aluminum (from pistons) and iron (from cylinders) indicates excess wear from piston scuffing. The high amount of silicon could be excess dirt getting past the air filter and contributing to the piston scuffing. Other wear metals look good. No fuel, water or anti-freeze found. The TBN was 3.8 (some additive left - 1.0 is low). Suggest a pair of 5K-mile oil changes to reduce wear.
-----------------	--

ELEMENTS IN PARTS PER MILLION	MI/HR ON OIL	12,019	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR ON UNIT	47,018								
	SAMPLE DATE	01/12/06								
	ALUMINUM	5	5							2
	CHROMIUM	1	1							1
	IRON	16	16							6
	COPPER	1	1							3
	LEAD	0	0							2
	TIN	0	0							0
	MOLYBDENUM	70	70							28
ELEMENTS IN PARTS PER MILLION	NICKEL	0	0							0
	MANGANESE	2	2							0
	SILVER	0	0							0
	TITANIUM	0	0							0
	POTASSIUM	2	2							5
	BORON	124	124							94
	SILICON	13	13							5
	SODIUM	7	7							4
	CALCIUM	3348	3348							2273
	MAGNESIUM	15	15							288
PROPERTIES	PHOSPHORUS	816	816							900
	ZINC	1019	1019							1066
	BARIUM	1	1							0

PROPERTIES	TEST	cST VISCOSITY @ 40 °C	SUS VISCOSITY @ 100 °F	VISCOSITY INDEX	cST VISCOSITY @ 100 °C	SUS VISCOSITY @ 210 °F	FLASHPOINT IN °F	FUEL %	ANTIFREEZE %	WATER %	INSOLUBLES %
	VALUES SHOULD BE					60-66	>360	<1.0	0	0.0	<0.5
	TESTED VALUES WERE					60.6	390	<0.5	0.0	0.0	0.3