



OIL REPORT

LAB NUMBER: D29341
 REPORT DATE: 1/25/2008
 CODE: 44/286

UNIT ID: 07 PRIUS
 CLIENT ID: 18959
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Toyota 1.5L (1NZFXE) 4-cyl	OIL TYPE & GRADE: Motorcraft 5W/20
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 7,700 Miles
	ADDITIONAL INFO:	

CLIENT	WINSTON	PHONE:
		FAX:
		ALT PHONE:
		EMAIL:

COMMENTS WINSTON: These low pressure engines that are computer controlled make very little metal and we have no idea how long you will be able to run the oil in one of them until an oil change is required. Oils don't wear out they just get contaminated and you can see from your low insolubles count that they are not much of a factor after the 7,700 mile oil use run. If they ran these engines on LPG you could probably run the oil forever. The TBN was 2.7 so we hope to see 8,500 miles on your next sample. Copper should read at 1-ppm in that next oil.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7.700	UNIT / LOCATION AVERAGES	2.750	2.272	UNIVERSAL AVERAGES
	MI/HR on Unit	12.692		5.020	2.272	
	Sample Date	11/19/07		08/26/07	06/30/07	
	Make Up Oil Added			0 qts	0 qts	
ALUMINUM	2	3	2	4	3	
CHROMIUM	0	0	0	0	0	
IRON	6	5	4	6	8	
COPPER	3	23	13	54	1	
LEAD	0	0	0	1	0	
TIN	0	0	0	0	0	
MOLYBDENUM	39	44	37	55	71	
NICKEL	1	0	0	0	0	
MANGANESE	0	0	0	1	1	
SILVER	0	0	0	0	0	
TITANIUM	0	0	0	0	0	
POTASSIUM	0	1	1	3	1	
BORON	99	77	131	2	53	
SILICON	16	50	33	102	14	
SODIUM	2	2	2	2	7	
CALCIUM	2080	1720	1753	1327	2336	
MAGNESIUM	9	8	9	6	26	
PHOSPHORUS	678	580	581	480	630	
ZINC	860	707	686	576	744	
BARIUM	0	1	0	2	0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	50.2	48-58	52.6	54.8
	cSt Viscosity @ 100°C	7.32	6.7-9.9	8.06	8.72
	Flashpoint in °F	365	>370	360	375
	Fuel %	TR	<2.0	0.5	<0.5
	Antifreeze %	0.0	0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.6	0.2	0.2
	TBN	2.7			
	TAN				
	ISO Code				

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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