



# OIL REPORT

LAB NUMBER: D29341

UNIT ID: 07 PRIUS

REPORT DATE: 1/25/2008

CLIENT ID: 18959

CODE: 44/286

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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