



OIL REPORT

LAB NUMBER: D38810
 REPORT DATE: 5/6/2008
 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: 9,650 Miles
	ADDITIONAL INFO:	

CLIENT	WINSTON	PHONE:
		FAX:
		ALT PHONE:
		EMAIL:

COMMENTS WINSTON: Nothing unusual showed up in the latest sample from this engine. Fuel dilution improved again and none was present this sample. The viscosity was good for a used 5W/20 and no moisture or anti-freeze showed up. The increased wear is probably due to the longer oil change interval and we think the metals in your sample are low enough to be considered normal. The TBN was low at 1.6, so the oil still some active additive left but not a lot. We consider 1.0 a low reading. Insolubles show very good oil filtration. Nice report here. Try 10,500 miles next time.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	9,500	UNIT / LOCATION AVERAGES	7,700	2,750	2,272	UNIVERSAL AVERAGES
	MI/HR on Unit	22,339		12,692	5,020	2,272	
	Sample Date	04/19/08		11/19/07	08/26/07	06/30/07	
	Make Up Oil Added	0 qts			0 qts	0 qts	
ALUMINUM	3	3	2	2	4	3	
CHROMIUM	0	0	0	0	0	0	
IRON	9	6	6	4	6	8	
COPPER	2	18	3	13	54	1	
LEAD	0	0	0	0	1	0	
TIN	2	1	0	0	0	0	
MOLYBDENUM	37	42	39	37	55	70	
NICKEL	1	1	1	0	0	0	
MANGANESE	1	1	0	0	1	1	
SILVER	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	
POTASSIUM	2	2	0	1	3	1	
BORON	53	71	99	131	2	51	
SILICON	11	41	16	33	102	14	
SODIUM	3	2	2	2	2	7	
CALCIUM	2050	1803	2080	1753	1327	2333	
MAGNESIUM	9	8	9	9	6	24	
PHOSPHORUS	678	604	678	581	480	638	
ZINC	845	742	860	686	576	755	
BARIUM	0	1	0	0	2	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	51.7	48-58	50.2	52.6	54.8
	cSt Viscosity @ 100°C	7.79	6.7-9.9	7.32	8.06	8.72
	Flashpoint in °F	385	>370	365	360	375
	Fuel %	<0.5	<2.0	TR	0.5	<0.5
	Antifreeze %	0.0	0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.3	<0.6	0.3	0.2	0.2
	TBN	1.6		2.7		
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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