



## OIL REPORT

LAB NUMBER: F17653

UNIT ID: 05 PRIUS-T

REPORT DATE: 8/29/2012

CLIENT ID: 34020

CODE: 20/75

PAYMENT: CC: AmEx

UNIT	MAKE/MODEL: Transaxle Toyota Prius	OIL TYPE & GRADE: Toyota WS ATF
	FUEL TYPE:	OIL USE INTERVAL: 92,833 Miles
	ADDITIONAL INFO:	

CLIENT	CHASE WAITS	PHONE: (740) 215-3023
	5582 MARSHFIELD DRIVE	FAX:
	WESTERVILLE, OH 43081	ALT PHONE:
		EMAIL: chase.waits@gmail.com

COMMENTS	CHASE: This first sample from your transaxle looks pretty good. Universal averages show typical wear levels for a Prius transaxle after about 43,000 miles on the oil. You ran more than twice that long and iron and copper are the only metals on the high side. Iron tracks with time on the oil, so we're not too concerned about that. Copper is from brass/bronze parts and it normally does not track with time on the oil, so 92K mi may have been a little long. The viscosity is thin for WS ATF, but that's normally not harmful. Try just 75,000 miles on the next fill and check back on copper.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	92,833	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	224,944							
	Sample Date	08/22/12							
	Make Up Oil Added	0 qts							
	ALUMINUM	46		46					
	CHROMIUM	2		2					
	IRON	227		227					
	COPPER	54		54					
	LEAD	3		3					
	TIN	2		2					
	MOLYBDENUM	1		1					
	NICKEL	3		3					
	MANGANESE	3		3					
	SILVER	0		0					
	TITANIUM	0		0					
	POTASSIUM	3		3					
	BORON	56		56					
	SILICON	52		52					
	SODIUM	2		2					
	CALCIUM	135		135					
	MAGNESIUM	4		4					3
	PHOSPHORUS	298		298					330
	ZINC	18		18					14
	BARIUM	4		4					14

Values  
Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	41.7	43-52					
	cSt Viscosity @ 100°C	4.68	5.1-8.2					
	Flashpoint in °F	395	>320					
	Fuel %	-						
	Antifreeze %	-						
	Water %	0.0	<0.1					
	Insolubles %	0.0	<0.1					
	TBN							
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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