



# OIL REPORT

LAB NUMBER:  
REPORT DATE: 10/3/2011

UNIT ID: 10 PRIUS-TA

UNIT

MAKE/MODEL: Transaxle Toyota  
FUEL TYPE:  
ADDITIONAL INFO:

OIL TYPE & GRADE: Toyota WS ATF  
OIL USE INTERVAL: 30,171 Miles

COMMENTS

THOMAS: The only element out of line in this sample was aluminum, and it read high at 144 ppm. If this is just the first oil change for this transaxle, maybe we're seeing the results of wear-in. If not, we might be looking at wear at a torque converter or other similar part. It's difficult to make any hard and fast calls without first seeing trends, so our suggestion for now is to just resample next oil change to monitor. Note insolubles, which show oxidation of this oil as a result of heat and/or use. As a result, we wouldn't run any longer than this next time around.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	30,171	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit								
	Sample Date	09/23/11							
	Make Up Oil Added	0 qts							
	ALUMINUM	144	127						41
	CHROMIUM	1	2						1
	IRON	37	46						38
	COPPER	14	18						44
	LEAD	1	1						8
	TIN	1	2						2
	MOLYBDENUM	1	1						1
	NICKEL	3	3						1
	MANGANESE	2	5						2
	SILVER	0	0						0
	TITANIUM	0	0						0
	POTASSIUM	0	2						1
	BORON	63	55						57
	SILICON	52	92						50
	SODIUM	0	2						3
	CALCIUM	122	133						128
	MAGNESIUM	1	2						15
	PHOSPHORUS	292	290						285
	ZINC	9	12						48
	BARIUM	0	2						6

Values  
Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	43.4	43-51					
	cSt Viscosity @ 100°C	5.22	5.1-7.9					
	Flashpoint in °F	370	>320					
	Fuel %	-						
	Antifreeze %	-						
	Water %	0.0	<0.1					
	Insolubles %	0.1	<0.1					
	TBN							
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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