



OIL REPORT

LAB NUMBER: J06231

UNIT ID: 06 4RUNNER-T

REPORT DATE: 1/23/2017

CLIENT ID: 103391

CODE: 20/32

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: Transmission Toyota, Automatic
FUEL TYPE:
ADDITIONAL INFO:

OIL TYPE & GRADE: Toyota WS ATF
OIL USE INTERVAL: 140,000 Miles

CLIENT

RONALD RIEDEL
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COMMENTS

RONALD: Well, we found a ton of metal in this sample, but that may just be initial break-in added to normal wear over 140,000 miles service (averages are based on just 38,000 miles). There's high silicon too, which is likely sealers used at the factory. The oil itself is actually in normal condition. The viscosity tested within the expected range for Toyota WS fluid, and there is no excess oxidation in the sample (insolubles are at 0.0%). You might do a drain and fill to help bring wear down. The metal currently in this system will keep us from spotting any potential wear issues.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	140,000	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR on Unit	140,000								
	Sample Date	1/10/2017								
	Make Up Oil Added									
	ALUMINUM	182		182						18
	CHROMIUM	1		1						0
	IRON	121		121						53
	COPPER	328		328						67
	LEAD	341		341						15
	TIN	17		17						3
	MOLYBDENUM	1		1						1
	NICKEL	1		1						1
	MANGANESE	3		3						1
	SILVER	0		0						0
	TITANIUM	0		0						0
	POTASSIUM	3		3						2
	BORON	41		41						80
	SILICON	38		38						17
	SODIUM	9		9						6
	CALCIUM	132		132						146
	MAGNESIUM	1		1						10
	PHOSPHORUS	281		281						327
	ZINC	10		10						38
	BARIUM	5		5						2

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	43.8	41-51					
	cSt Viscosity @ 100°C	5.34	4.5-7.9					
	Flashpoint in °F	405	>320					
	Fuel %	-	<0.0					
	Antifreeze %	0.0						
	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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