

OIL REPORT

LAB NUMBER: F11387 **REPORT DATE:** 7/18/2012

CODE: 20/75

PHONE: (773) 350-3363

UNIT ID: Z50555-TR **CLIENT ID: 56835 PAYMENT:** Prepaid

CLIENT

MAKE/MODEL: Transmission Toyota, Automatic

ADDITIONAL INFO: 1999 4-Runner OIL TYPE & GRADE: Mobil 1 ATF

OIL USE INTERVAL: 13,000 Miles

ROBERT WITTIG

FUEL TYPE:

4701 MANDRAKE ROAD

FAX: MADISON, WI 53704 ALT PHONE:

EMAIL: wittig44@yahoo.com

ROBERT: Thanks for the note. We hope that the high level of iron and the high insolubles in this sample are just because the sample got messed up coming from the end of the drain; otherwise, you've got a lot of iron in this oil, showing excessive wear at steel parts. Universal averages show typical wear for a Toyota transmission after ~31,000 miles of oil use, and your iron is about 15 times average on a shorter oil run. Even if insolubles made the oil abrasive, iron shouldn't be this bad. Resample in ~10,000 miles; if this was just a sampling error, it should look better next time.

	MI/HR on Oil	13,000	UNIT /			
	MI/HR on Unit	140,470	LOCATION			UNIVERSAL
	Sample Date	07/15/12	AVERAGES			AVERAGES
	Make Up Oil Added					
_						
MILLION	ALUMINUM	22	22			18
	CHROMIUM	1	1			0
	IRON	861	861			54
	COPPER	37	37			62
PER	LEAD	16	16			15
	TIN	2	2			2
PARTS	MOLYBDENUM	1	1			1
8	NICKEL	1	1			1
ΡA	MANGANESE	5	5			1
	SILVER	0	0			0
ELEMENTS IN	TITANIUM	0	0			0
£	POTASSIUM	10	10			2
	BORON	160	160			71
Σ	SILICON	13	13			19
Ë	SODIUM	20	20			6
ш	CALCIUM	172	172			143
	MAGNESIUM	3	3			15
	PHOSPHORUS	546	546			317
	ZINC	57	57			50
	BARIUM	1	1			3

Values Should Be*

SUS Viscosity @ 210°F	49.4	43-51			
cSt Viscosity @ 100°C	7.10	5.1-7.9			
Flashpoint in °F	410	>355			
Fuel %	-				
Antifreeze %	-				
Water %	0.0	0.0			
Insolubles %	0.2	<0.1			
TBN					
TAN					
ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE