



P.O. NUMBER Prepaid
 CODE: 20/21523/140

UNIT NUMBER 03 4RNNER-RD
 REPORT DATE: 6/21/06
 LAB NUMBER: C76990

OIL REPORT

CLIENT	CONTACT:	PHONE:
	NAME:	FAX:
	ADDRESS:	E-MAIL:

UNIT	EQUIPMENT MAKE: Differential	OIL USE INTERVAL: 20,000 Miles
	EQUIPMENT MODEL: Toyota	OIL TYPE & GRADE: Mobil 75W/90
	FUEL TYPE: Not Applicable	MAKE-UP OIL ADDED: 0 qts
	ADDITIONAL INFO:	

COMMENTS ANDRIES: This was a 75W/90 lube oil and there was no moisture in the sample. We mostly find iron wear in diff samples from gears. Often chrome and nickel alloys show up as well, depending on the metallurgy in use and how much iron is present. Average iron for a Toyota diff after a 17,500 mile oil use run. Your diff is wearing better than average. The high insolubles show oil oxidation from your 20,000 mile run. Insolubles are primarily free carbon in the oil. Run another 20,000 miles before resampling. The TAN was 1.5, somewhat acidic. 2.0 is high on our scale.

ELEMENTS IN PARTS PER MILLION	MI/HR ON OIL	20,000	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR ON UNIT	60,000								
	SAMPLE DATE	05/28/06								
ALUMINUM	0	0								1
CHROMIUM	1	1								2
IRON	170	170								196
COPPER	0	0								13
LEAD	0	0								1
TIN	0	0								0
MOLYBDENUM	0	0								1
NICKEL	0	0								0
MANGANESE	3	3								8
SILVER	0	0								0
TITANIUM	0	0								0
POTASSIUM	0	0								1
BORON	229	229								140
SILICON	2	2								18
SODIUM	2	2								5
CALCIUM	4	4								870
MAGNESIUM	0	0								3
PHOSPHORUS	1967	1967								1717
ZINC	5	5								522
BARIUM	0	0								2

PROPERTIES	TEST	cST VISCOSITY @ 40 °C	SUS VISCOSITY @ 100 °F	VISCOSITY INDEX	cST VISCOSITY @ 100 °C	SUS VISCOSITY @ 210 °F	FLASHPOINT IN °F	FUEL %	ANTIFREEZE %	WATER %	INSOLUBLES %	
	VALUES SHOULD BE					67-80	>405				<0.1	<0.8
	TESTED VALUES WERE					73.7	365		-	-	0.0	1.0