BLACKSTONE LABORATORIES

P.O. NUMBER CC: AmEx
CODE: 20/11261/121

UNIT NUMBER 4-RUNNER-DIF
REPORT DATE: 11/30/04
LAB NUMBER: C32771

OIL REPORT

CLIENT

CONTACT:
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UNIT

EQUIPMENT MAKE: Differential
EQUIPMENT MODEL: Toyota
FUEL TYPE: Not Applicable
ADDITIONAL INFO:

OIL USE INTERVAL: 15,000 Miles
OIL TYPE & GRADE: Mobil 1 75W/90 Gear
MAKE-UP OIL ADDED: 0 qts

COMMENTS

STEVEN: Nothing wrong with this differential fluid. Wear was low compared to averages, and we didn't find any contaminants in the oil. The TBN read 1.9, so some active additive was still present in the oil, but not a lot. We are not sure where the TBN starts out in this type of virgin oil, but it probably doesn't start out much higher than 2.0 or 3.0, since it doesn't have much detergent/dispersant additive present. No moisture found in the oil, and insolubles were normal at 0.3%. At 32,600 miles, everything looks good. With wear this low, the unit should last forever.

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR ON OIL	15,000							
MI/HR ON UNIT	32,600							
SAMPLE DATE	11/10/04							
ALUMINUM	0	0						1
CHROMIUM	1	1						3
IRON	154	154						266
COPPER	0	0						1
LEAD	0	0						1
TIN	0	0						0
MOLYBDENUM	0	0						2
NICKEL	0	0						1
MANGANESE	5	5						14
SILVER	0	0						0
TITANIUM	0	0						0
POTASSIUM	0	0						1
BORON	215	215						160
SILICON	5	5						31
SODIUM	2	2						4
CALCIUM	0	0						128
MAGNESIUM	0	0						1
PHOSPHORUS	2094	2094						1877
ZINC	0	0						417
BARIUM	1	1						4

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					77.5	385	-	-	0.0	0.3

LIABILITY LIMITED TO COST OF SAMPLE ANALYSIS

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