WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

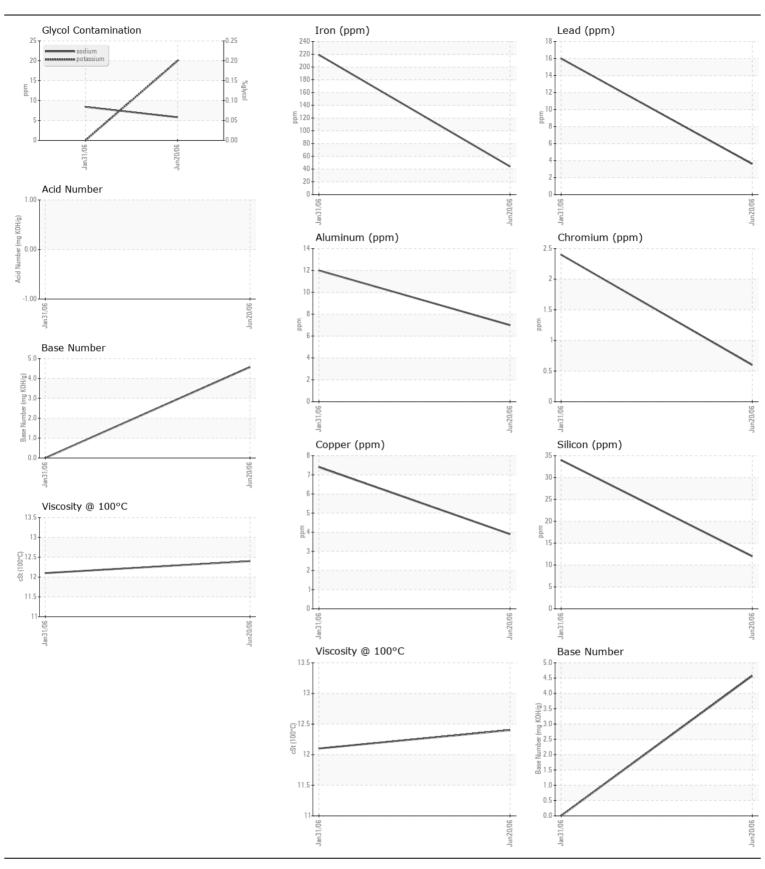
Machine Id

## **2005 TOYOTA TOYOTA 4X4**

Component

Component Gasoline Engine							
ROYAL PURPLE MOTOR OIL 15W40 (2 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please note that this is a corrected copy.	Sample Number		Client Info		RP033580		
	Sample Date		Client Info		20 Jun 2006		
	Machine Age	mls	Client Info		24798	18210	
	Oil Age	mls	Client Info		6588	13238	
	Filter Age	mls	Client Info		6588	3108	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m		44	219	
	Chromium	ppm	ASTM D5185m		<1	2	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	2	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		7	12	
	Lead	ppm	ASTM D5185m		4	16	
	Copper	ppm	ASTM D5185m		4	7	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		12	34	
There is no indication of any contamination in the component.	Potassium	ppm	ASTM D5185m		20	0	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol	%	*ASTM D2982		NEG	NEG	
	Soot %	%	*ASTM D7844		0	0	
	Nitration	Abs/cm	*ASTM D7624		0.19	0.33	
	Sulfation	Abs/.1mm	*ASTM D7415		0.48	0.90	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual		NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	8	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		0	4	
	Barium	ppm	ASTM D5185m		<1	<1	
	Molybdenum	ppm	ASTM D5185m		104	111	
	Manganese	ppm	ASTM D5185m		70	31	
	Magnesium	ppm	ASTM D5185m		13	14	
	Calcium	ppm	ASTM D5185m		2917	3000	
	Phosphorus	ppm	ASTM D5185m		1061	943	
	Zinc	ppm	ASTM D5185m		1154	1211	
	Oxidation	Abs/.1mm	*ASTM D7414		0.30	0.43	
	Base Number (BN)	mg KOH/g	ASTM D2896		4.57	0.000	
	Visc @ 100°C	cSt	ASTM D445		12.4	<u> </u>	

Contact/Location: DANNY BARREIRO - PETQUI





Laboratory Sample No. Unique Number : 3759384

Lab Number : 01747488

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP033580

Received **Tested** 

: 23 Jun 2006 : 26 Jun 2006

**OILMAX S.A.S.** 

AV 6 DICIEMBRE Y GASPAR CANTERO QUITO-ECUADOR,

: 07 Jul 2006 - Doug Bogart Diagnosed

> Contact: DANNY BARREIRO oilmax.ec@gmail.com T: (593)996-451694

Test Package : MOB 2 ( Additional Tests: Glycol, TBN ) To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: x: