



OIL REPORT

LAB NUMBER: [REDACTED]
REPORT DATE: 4/23/2014
CODE: [REDACTED]

UNIT ID: 05 4 RUNNER
CLIENT ID: [REDACTED]
PAYMENT: [REDACTED]

UNIT

MAKE/MODEL: Toyota 4.7L V-8 (2UZ-FE)
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO: 50% Towing/50% Daily Driving

OIL TYPE & GRADE: Mobil 1 5W/30 Extended Performance
OIL USE INTERVAL: 10,206 Miles

CLIENT

COMMENTS

JOHN: It has been a while since we last saw this engine, so we're glad to see that it still looks pretty good overall. A little extra aluminum and iron showed up compared to both averages and compared to last time, but really 5 ppm of aluminum and 12 of iron isn't so much that we think there are any problems here. Your oil run was a little longer than average, and that could certainly account for some extra iron. And aluminum, well, really. It's not bad. So don't let the increases and the marks concern you. We still think this engine's doing fine. The TBN was good at 2.0.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	10,206	UNIT / LOCATION AVERAGES	8,000					UNIVERSAL AVERAGES
	MI/HR on Unit	144,186		128,623					
	Sample Date	04/06/14		10/20/12					
	Make Up Oil Added	0 qts		0.35 qt					
	ALUMINUM	5	4	2					2
	CHROMIUM	0	0	0					0
	IRON	12	10	8					7
	COPPER	1	1	1					4
	LEAD	0	0	0					2
	TIN	0	0	0					1
	MOLYBDENUM	67	36	5					73
	NICKEL	0	0	0					0
	MANGANESE	0	0	0					0
	SILVER	0	0	0					0
	TITANIUM	0	0	0					1
	POTASSIUM	5	4	2					2
	BORON	34	18	2					49
	SILICON	15	13	11					15
	SODIUM	14	22	29					35
	CALCIUM	1046	1598	2149					2174
	MAGNESIUM	567	552	536					166
	PHOSPHORUS	614	734	853					677
	ZINC	710	900	1089					800
	BARIUM	1	1	0					0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	58.3	56-63	64.0				
	cSt Viscosity @ 100°C	9.73	9.1-11.3	11.33				
	Flashpoint in °F	420	>365	400				
	Fuel %	<0.5	<2.0	<0.5				
	Antifreeze %	0.0	0.0	0.0				
	Water %	0.0	0.0	0.0				
	Insolubles %	0.2	<0.6	0.3				
	TBN	2.0	>1.0	4.1				
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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