



OIL REPORT

LAB NUMBER: L04038
 REPORT DATE: 3/27/2019
 CODE: 20/32

UNIT ID: 18 4RUNNER
 CLIENT ID:
 PAYMENT: Prepaid

UNIT	MAKE/MODEL: Toyota 4.0L V-6 (1GR-FE)	OIL TYPE & GRADE: Synthetic 0W/20
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 10,000 Miles
	ADDITIONAL INFO:	

CLIENT	
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COMMENTS Metals often accumulate more than usual during break-in, and that's what we're seeing here. Highlights to aluminum, iron, and copper aren't at all unexpected, and should go away as these metals wash out over the next few oil changes (silicon, too, as it's from harmless sealers). A longer oil use interval (almost twice what is used for universal averages) will also result in elevated wear levels. All that to say, this new engine looks about like we'd expect (fine) at first oil change. The trace of fuel is OK, and probably from idling or short commutes. Nice first report!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	10,000	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	10,000						
	Sample Date	2/22/2019						
	Make Up Oil Added	0 qts						
ALUMINUM	10	10						4
CHROMIUM	1	1						0
IRON	35	35						11
COPPER	137	137						3
LEAD	0	0						0
TIN	0	0						0
MOLYBDENUM	631	631						76
NICKEL	0	0						0
MANGANESE	2	2						1
SILVER	0	0						0
TITANIUM	0	0						2
POTASSIUM	3	3						3
BORON	80	80						36
SILICON	174	174						15
SODIUM	10	10						52
CALCIUM	1204	1204						1812
MAGNESIUM	718	718						299
PHOSPHORUS	750	750						675
ZINC	848	848						774
BARIUM	9	9						0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°	51.0	46-59				
	cSt Viscosity @ 100°C	7.56	6.0-10.2				
	Flashpoint in °F	380	>385				
	Fuel %	TR	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.2	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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