



OIL REPORT

UNIT

MAKE/MODEL: Toyota 4.0L V-6 (1GR-FE)
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: 0W/20
OIL USE INTERVAL: 1,130 Miles

COMMENTS

STEVE: This sample looks fantastic for the factory fill in a new engine. Universal averages show typical wear levels for Toyota's 1GR-FE engine after about 5,600 miles on the oil. You ran your oil just 1,130 miles, but since this is the first oil change in your engine, we expected to see a lot more wear than this. Copper is from brass/bronze parts and is usually the last metal to drop to average, but it should improve nicely next time. Silicon is from sealers used during assembly and is not an issue. The viscosity looks like a 0W/20 or a 5W/20, and no fuel or water was present. Nice!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	1,130	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	1,130							
	Sample Date	6/18/2016							
	Make Up Oil Added	0 qts							
	ALUMINUM	4	4						3
	CHROMIUM	0	0						0
	IRON	19	19						11
	COPPER	184	184						4
	LEAD	0	0						1
	TIN	0	0						1
	MOLYBDENUM	147	147						75
	NICKEL	0	0						0
	MANGANESE	2	2						1
	SILVER	0	0						0
	TITANIUM	46	46						2
	POTASSIUM	3	3						3
	BORON	2	2						37
	SILICON	184	184						15
	SODIUM	405	405						52
	CALCIUM	1616	1616						1981
	MAGNESIUM	7	7						233
	PHOSPHORUS	698	698						679
	ZINC	807	807						789
	BARIUM	8	8						0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	50.0	46-56					
	cSt Viscosity @ 100°C	7.28	6.0-9.4					
	Flashpoint in °F	405	>385					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	<0.1					
	Insolubles %	TR	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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