



OIL REPORT

LAB NUMBER: P06974

UNIT ID: 21 4RUNNER

REPORT DATE: 11/11/2021

CLIENT ID: 191303

CODE: 63/698

PAYMENT: CC: Discover

UNIT

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

OIL TYPE & GRADE: Royal Purple 0W/20
OIL USE INTERVAL: 7,961 Miles

CLIENT

BRYAN NORMAN
210 OBSIDIAN COURT
SIMPSONVILLE, SC 29680

PHONE: (240) 446-2857
FAX:
ALT PHONE:
EMAIL: bmnorm2@gmail.com

COMMENTS

BRYAN: Your 4Runner's used oil looks just as it should at one of the first oil changes. Copper and silicon are both elevated, from the parts building up working clearances and sealers/lubes used to put the engine together. We'll expect progress from both of these elements and maybe some other as trends get rolling. Universal averages show how mature Toyota 4.0L V-6 engines tend to wear after ~6K miles oil use. The oil had a normal viscosity and was free of harmful contaminants. The TBN shows active additive left too, so go 10K mi before checking back for a wear-in update.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,961	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR on Unit	11,844								
	Sample Date	10/24/2021								
	Make Up Oil Added	0 qts								
	ALUMINUM	5		5						4
	CHROMIUM	0		0						0
	IRON	17		17						11
	COPPER	87		87						3
	LEAD	0		0						0
	TIN	0		0						0
	MOLYBDENUM	61		61						85
	NICKEL	0		0						0
	MANGANESE	1		1						0
	SILVER	0		0						0
	TITANIUM	0		0						3
	POTASSIUM	3		3						3
	BORON	10		10						39
	SILICON	41		41						15
	SODIUM	297		297						40
	CALCIUM	1848		1848						1588
	MAGNESIUM	81		81						418
	PHOSPHORUS	602		602						676
	ZINC	713		713						772
	BARIUM	1		1						0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	51.7	46-57					
	cSt Viscosity @ 100°C	7.78	6.0-9.7					
	Flashpoint in °F	400	>370					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	<0.1					
	Insolubles %	0.2	<0.6					
	TBN	3.3	>1.0					
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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