

 LAB NUMBER:
 \$109419

 REPORT DATE:
 9/6/2024

 CODE:
 20/1,430

 UNIT ID:
 13 CT200H

 CLIENT ID:
 69325

 PAYMENT:
 CC: Visa

UNIT

MAKE/MODEL: Toyota 1.8L 4-cyl (2ZR-FXE) FUEL TYPE: Gasoline (Unleaded) ADDITIONAL INFO: Lexus

OIL TYPE & GRADE: OIL USE INTERVAL: Amsoil Signature Series 0W/20 29,408 Miles

PETER

CLIENT

COMMENTS

PETER: Well, it turns out nearly 30,000 miles between oil changes was too many for the 1.8L Toyota in your Lexus and the Amsoil running through it. The 1.6 TBN shows that the oil was low on active additive. Aluminum and iron and increased—they're from pistons/bearings and steel parts, respectively. These readings don't look half bad for the mileage, but silicon spiked, and it could be airborne dirt that caused more wear. Check the air filter and for leaks/loose fittings in the air intake tract. Fuel dilution was okay at only 0.8%. Cut back to 25K miles or less on the next oil.

	MI/HR on Oil	29,408		23,864	13,600	20,000		
	MI/HR on Unit	154,408	UNIT / LOCATION	122,464	98,600	82,000		UNIVERSAL
	Sample Date	8/14/2024		7/9/2022	4/26/2021	1/24/2020		AVERAGES
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts		
N	ALUMINUM	10	6	5	4	5		4
ГI	CHROMIUM	0	0	0	0	0		0
	IRON	28	19	21	13	14		9
2	COPPER	2	1	1	0	1		1
Ш	LEAD	0	0	0	0	0		0
٩	TIN	1	1	1	0	1		0
TS	MOLYBDENUM	191	137	197	79	79		108
Ē	NICKEL	2	1	0	0	0		0
Ч	MANGANESE	1	0	0	0	0		0
Z	SILVER	0	0	0	0	0		0
5	TITANIUM	0	0	0	0	0		2
Ë	POTASSIUM	1	2	1	3	3		2
Ш	BORON	28	43	53	47	45		53
\geq	SILICON	54	24	18	10	12		12
Ξ	SODIUM	16	12	18	8	7		13
	CALCIUM	1148	1160	1287	1104	1099		1409
	MAGNESIUM	924	866	1000	757	781		482
	PHOSPHORUS	672	641	687	596	608		661
	ZINC	813	752	824	687	684		757
	BARIUM	0	0	0	0	0		0
			Values					

value	es
Should	Be'

						-	
SUS Viscosity @ 210°F	57.0	46-57	55.1	50.2	51.8		
cSt Viscosity @ 100°C	9.36	6.0-9.7	8.80	7.33	7.82		
Flashpoint in °F	370	>385	410	435	400		
Fuel %	0.8	<2.0	<0.5	<0.5	<0.5		
Antifreeze %	0.0	0.0	0.0	0.0	0.0		
Water %	0.0	<0.1	0.0	0.0	0.0		
Insolubles %	0.2	<0.6	0.2	0.2	0.2		
TBN	1.6	>1.0	2.6	2.9	3.2		
TAN							
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com