

OIL REPORT LAB NUMBER: M69415 REPORT DATE: 10/6/2020

UNIT ID: 16 MAZDA3 **CLIENT ID: 108903** PAYMENT: CC: Visa

CLIENT

MAKE/MODEL: Mazda 2.0L 4-cyl SkyActiv

FUEL TYPE: Gasoline (Unleaded)

ADDITIONAL INFO:

ZACHARY LEE ANDREWS

OAK CITY, NC 27857-9527

3045 RAY TURNER RD

OIL TYPE & GRADE: Idemitsu Zepro 0W/20

OIL USE INTERVAL: 12,218 Miles

PHONE: (252) 217-4379

**CODE:** 44/698

FAX:

ALT PHONE:

EMAIL: zcrayfish@gmail.com

ZACHARY: We calculated 12,218 miles on the oil based on elapsed mileage, but let us know if that's not right. The biggest change brought about by the shorter run was lower iron, which is pretty typical. A lot more components are made from steel than any other metal, so that iron tends to track closest with oil use. But on a ppm/mile basis iron is still on the low side, showing improved steel wear. Other metals show nice even wear too. 1.5% fuel isn't a problem, and likely relates to idling/stop and go traffic. The TBN shows enough active additive to try 16K miles again.

	MI/HR on Oil	12,218		16,677	13,713	11,702		7,506	
	MI/HR on Unit	71,314	UNIT / LOCATION AVERAGES	59,096	42,419	28,706	17,004	7,506	UNIVERSAL
	Sample Date	9/23/2020		3/27/2020	7/1/2019	8/7/2018	11/27/2017	5/8/2017	AVERAGES
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts		
LION	ALUMINUM	7	11	9	8	10	11	28	4
	CHROMIUM	1	1	2	2	1	1	1	0
MIL	IRON	23	29	42	30	30	22	30	10
	COPPER	2	4	2	3	4	11	40	3
띪	LEAD	0	0	0	0	0	0	0	0
4	TIN	0	0	0	0	1	1	1	0
PARTS	MOLYBDENUM	675	675	666	623	692	721	644	153
	NICKEL	0	0	1	0	0	0	0	0
	MANGANESE	1	1	1	1	1	2	6	1
Z	SILVER	0	0	0	0	0	0	0	0
S	TITANIUM	0	0	1	1	0	0	0	5
Ľ	POTASSIUM	0	2	2	3	2	2	5	2
	BORON	145	141	121	127	147	165	184	80
EM	SILICON	16	19	18	17	17	29	77	12
H	SODIUM	6	8	10	8	9	6	9	26
	CALCIUM	2149	2165	2175	2067	2201	2235	1950	1593
	MAGNESIUM	13	12	14	10	14	11	10	423
	PHOSPHORUS	703	708	716	661	741	721	677	659
	ZINC	762	796	824	737	831	825	732	750
	BARIUM	0	1	1	1	1	3	11	0

Values

Should Be\*

SUS Viscosity @ 210°F	49.5	46-57	48.8	51.2	50.8	48.4	47.5
cSt Viscosity @ 100°C	7.13	6.0-9.7	6.89	7.65	7.50	6.77	6.50
Flashpoint in °F	355	>385	350	365	380	385	390
Fuel %	1.5	<2.0	1.8	1.0	TR	TR	<0.5
Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Insolubles %	0.3	<0.6	0.3	0.2	0.3	0.3	0.3
TBN	2.5	>1.0	1.8	2.5	2.8	3.3	3.1
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