



# OIL REPORT

LAB NUMBER: K79014  
 REPORT DATE: 12/18/2018  
 CODE: 20/685

UNIT ID: 18 MAZDA 3  
 CLIENT ID: [REDACTED]  
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Mazda 2.5L Inline 4 SkyActiv	OIL TYPE & GRADE: Gasoline Engine Oil
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 3,000 Miles
	ADDITIONAL INFO: Touring	

CLIENT	[REDACTED] OP	PHONE: [REDACTED]
		FAX: [REDACTED]
		ALT PHONE: [REDACTED]
		EMAIL: [REDACTED]

**COMMENTS**  
 Ah, there we go. Metals are now all comfortably in the average range, so your Mazda 3 has made it through wear-in seamlessly. You might see copper drop again in the next sample, but even if you don't, that's just fine. This level shows a perfectly healthy amount of wear at brass/bronze components. The other metals are also in excellent shape, and the oil was free of any harmful contaminants. The slip didn't mention the viscosity, but it read in about the 5W/20 range. Insolubles are good at a trace, and the TBN is strong at 7.7 (1.0 is too low). Nice!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	3,000	UNIT / LOCATION AVERAGES	3,000	3,005	UNIVERSAL AVERAGES
	MI/HR on Unit	13,830		10,000	3,005	
	Sample Date	11/25/2018		7/19/2018	12/20/2017	
	Make Up Oil Added	0 qts		0 qts	0 qts	
	ALUMINUM	2	3	3	3	4
	CHROMIUM	0	0	0	0	0
	IRON	7	7	6	18	11
	COPPER	5	8	11	26	3
	LEAD	1	1	0	0	0
	TIN	0	0	0	0	0
	MOLYBDENUM	SECRET LOL 2	33	MOBILE 1 64	551 MAZDA	168
	NICKEL	0	0	0	0	0
	MANGANESE	1	1	0	2	0
	SILVER	0	0	0	0	0
	TITANIUM	1	16	30	2	3
	POTASSIUM	0	1	1	6	3
	BORON	99	126	152	221	95
	SILICON	5	8	11	64	13
	SODIUM	4	4	3	6	29
	CALCIUM	1450	1380	1309	2047	1708
	MAGNESIUM	674	752	829	58	300
	PHOSPHORUS	882	812	742	690	666
	ZINC	901	864	826	746	754
	BARIUM	0	0	0	10	1

Values Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	56.5		66.5	50.5
	cSt Viscosity @ 100°C	9.22		12.02	7.43
	Flashpoint in °F	400	>375	395	410
	Fuel %	<0.5	<2.0	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0
	Insolubles %	TR	<0.6	0.4	0.1
	TBN	7.7	>1.0		
	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