



# OIL REPORT

LAB NUMBER:  
 REPORT DATE: 11/26/2025  
 CODE: 146/216

UNIT ID:  
 CLIENT ID:  
 PAYMENT:

UNIT	EQUIP. MAKE/MODEL: Mazda 2.5L SkyActiv-G I-4	OIL TYPE & GRADE: Mobil 1 High Mileage 10W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 2,071 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

**COMMENTS**  
 Sticking to short oil changes is a great way to mitigate the harm a coolant leak can do. We're actually not seeing any evidence of coolant contamination this time around: potassium and sodium are both low. A coolant leak won't fix itself, though, so it'll be good to keep doing ~2k-mile intervals until you can find and repair the issue. We don't have any other concerns to address. Fuel is back, but it's harmless at this level even if it might've helped thin the viscosity below spec. Wear metals in the low single digits suggest healthy mechanical operation.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	2,071	UNIT / LOCATION AVERAGES	2,108	2,131	3,694	3,041	2,197	UNIVERSAL AVERAGES
	MI/HR on Unit	109,232		107,161	105,053	102,576	98,882	95,841	
	Sample Date	11/8/2025		4/30/2025	12/28/2024	7/27/2024	5/25/2023	5/18/2022	
	Make Up Oil Added	0 qts		0 qts	0 qts	0.25 qts	0 qts	0 qts	
ALUMINIUM	2	3	3	4	3	4	3	4	
CHROMIUM	0	0	0	0	0	0	0	0	
IRON	2	4	3	3	5	5	4	8	
COPPER	0	0	0	0	1	1	0	2	
LEAD	0	0	0	0	0	0	0	0	
TIN	0	0	0	0	0	0	1	0	
MOLYBDENUM	86	134	119	283	302	288	162	143	
NICKEL	0	0	0	0	0	0	0	0	
MANGANESE	0	0	0	1	6	19	0	1	
SILVER	0	0	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	0	4	
POTASSIUM	5	6	5	11	28	21	11	10	
BORON	72	56	54	56	33	46	61	75	
SILICON	4	8	5	8	10	18	9	12	
SODIUM	18	29	21	39	87	55	88	11	
CALCIUM	859	1036	741	1144	1102	1189	1505	1258	
MAGNESIUM	476	575	596	428	404	398	506	525	
PHOSPHORUS	574	622	576	510	512	610	736	650	
ZINC	656	740	719	698	667	706	881	745	
BARIUM	0	0	0	0	0	0	0	0	

Values Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	55.3	58-65	58.8	53.5	54.6	54.8	53.6
	cSt Viscosity @ 100°C	8.86	9.7-11.9	9.89	8.32	8.65	8.70	8.35
	Flashpoint in °F	365	>385	405	380	420	390	395
	Fuel %	1.0	<2.0	<0.5	TR	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	POS	0.17	0.11	POS
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.2	<0.6	0.3	0.3	0.4	0.3	0.3
	TBN							
	TAN							
ISO Code								

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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