



OIL REPORT

LAB NUMBER: S262911
 REPORT DATE: 8/4/2025
 CODE: 20/1,193

UNIT ID: 09 COOPER
 CLIENT ID: 118376
 PAYMENT: CC:

UNIT	MAKE/MODEL: Cooper, Mini 1.6L 4-cyl	OIL TYPE & GRADE: Valvoline Restore & Protect 5W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,910 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS MARK: Thanks for the note. We updated the engine type. Universal averages for the naturally-aspirated 1.6-liter engines are based on ~6,100-mile intervals, and these results compare well to those, too. Aluminum is the only metal that's a bit higher than in the previous sample, and it still indicates perfectly good piston/bearing wear at 7 ppm. There isn't any contamination in the oil to point out, and the viscosity is within the right range this time to boot. It looks like this MINI's engine is doing just fine 13,593 miles.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,910	UNIT / LOCATION AVERAGES	5,013	3,130	510	UNIVERSAL AVERAGES
	MI/HR on Unit	13,593		8,683	3,670		
	Sample Date	7/16/2025		8/12/2024	4/13/2024	2/1/2024	
	Make Up Oil Added	0 qts		0 qts	0 qts		
ALUMINUM	7	7	6	6	9	5	
CHROMIUM	2	1	3	5	6	1	
IRON	19	20	23	25	32	25	
COPPER	8	5	7	6	8	10	
LEAD	0	0	0	0	0	0	
TIN	0	0	0	0	0	0	
MOLYBDENUM	51	99	86	83	96	97	
NICKEL	0	0	0	0	0	1	
MANGANESE	5	2	6	7	10	2	
SILVER	0	0	0	0	0	0	
TITANIUM	0	4	0	0	0	3	
POTASSIUM	0	1	2	1	1	2	
BORON	25	92	35	72	117	70	
SILICON	8	7	9	13	34	8	
SODIUM	7	5	6	8	10	14	
CALCIUM	814	1267	684	942	1020	2096	
MAGNESIUM	734	473	630	543	634	280	
PHOSPHORUS	698	684	529	541	781	783	
ZINC	808	772	665	614	840	913	
BARIUM	0	0	1	3	5	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	55.0	55-63	54.6	54.3	55.1
	cSt Viscosity @ 100°C	8.78	8.8-11.3	8.64	8.57	8.79
	Flashpoint in °F	415	>385	425	420	430
	Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.1	<0.6	0.1	0.1	0.2
	TBN					
	TAN					
ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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