



OIL REPORT

LAB NUMBER: S111665
 REPORT DATE: 9/11/2024
 CODE: 20/88

UNIT ID: 99 SILVERADO
 CLIENT ID: 217819
 PAYMENT: CC: MC

UNIT	MAKE/MODEL: GM 6.0L V-8	OIL TYPE & GRADE: Mobil 1 5W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,000 Miles
	ADDITIONAL INFO: Engine from a GMC Yukon	

CLIENT	[REDACTED]
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COMMENTS EVAN: Metals are high after 5,000 miles on the oil. The oil was in use twice as long as the last sample so finding more metal isn't unusual, but these results show excess wear, even with the 5,000-mile run in mind. Iron is from steel parts and copper, lead, and tin show bearing wear. All together, these results show excess wear from a bearing/shaft interface. We don't suspect a problem if oil pressure is normal and the engine isn't knocking. Maybe hard use like towing/hauling is responsible. If all is well, check back in 3K miles to monitor wear. No excess fuel was detected.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,000	UNIT / LOCATION AVERAGES	2,500				UNIVERSAL AVERAGES
	MI/HR on Unit			170,000				
	Sample Date	7/22/2024		2/10/2023				
	Make Up Oil Added	0 qts		0 qts				
ALUMINUM	5	5	4					3
CHROMIUM	1	1	1					1
IRON	43	33	23					19
COPPER	74	44	14					21
LEAD	20	13	5					5
TIN	6	3	0					1
MOLYBDENUM	90	77	63					77
NICKEL	1	1	1					1
MANGANESE	48	85	121					24
SILVER	0	0	0					0
TITANIUM	0	0	0					1
POTASSIUM	0	0	0					3
BORON	31	30	28					45
SILICON	14	18	22					11
SODIUM	14	14	13					32
CALCIUM	661	576	491					1677
MAGNESIUM	633	527	420					332
PHOSPHORUS	632	551	469					709
ZINC	796	675	554					829
BARIUM	0	0	0					0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	56.5	55-63	42.4			
	cSt Viscosity @ 100°C	9.20	8.8-11.3	4.91			
	Flashpoint in °F	415	>385	325			
	Fuel %	<0.5	<2.0	3.0			
	Antifreeze %	0.0	0.0	0.0			
	Water %	0.0	0.0	0.0			
	Insolubles %	0.2	<0.6	0.2			
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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