



OIL REPORT

LAB NUMBER: K53787
 REPORT DATE: 9/17/2018
 CODE: 146/685

UNIT ID: 09 YUKON
 CLIENT ID: 131172
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: GM 5.3L V-8	OIL TYPE & GRADE: 5W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 2,500 Miles
	ADDITIONAL INFO: Gas Flex engine	

COMMENTS JUSTIN: Unfortunately this engine appears to have a coolant problem. Potassium and sodium show coolant in the oil, up to about 1.38% of the sample. Most wear metals look quite good compared to averages, but lead is quite high and that suggests a lot of bearing wear. Averages for this engine type are based on about 5,600 miles on the oil, so lead is even worse when you consider how high it is for the shorter-than-average interval. No other contamination was found. Use very short intervals until you can find/repair the leak. The TBN was fine at 3.9.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	2,500	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	207,000						
	Sample Date	8/20/2018						
	Make Up Oil Added							
	ALUMINUM	0						3
	CHROMIUM	0						1
	IRON	3						18
	COPPER	14						23
	LEAD	48						6
	TIN	0						1
	MOLYBDENUM	4						74
	NICKEL	0						1
	MANGANESE	0						6
	SILVER	0						0
	TITANIUM	2						1
	POTASSIUM	105						5
	BORON	3						44
	SILICON	3						11
	SODIUM	688						54
	CALCIUM	687						1966
	MAGNESIUM	106						214
	PHOSPHORUS	485						695
	ZINC	556						818
	BARIUM	0						0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	56.6	54-63				
	cSt Viscosity @ 100°C	9.24	8.5-11.3				
	Flashpoint in °F	420	>375				
	Fuel %	<0.5	<2.0				
	Antifreeze %	1.38	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.2	<0.6				
	TBN	3.9	>1.0				
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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