



OIL REPORT

LAB NUMBER:
 REPORT DATE: 11/15/2018
 CODE: 20/32

UNIT ID: WA011810380
 CLIENT ID:
 PAYMENT: CC: MC

UNIT	MAKE/MODEL: Gasoline Engine	OIL TYPE & GRADE: Gasoline Engine Oil
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL:
	ADDITIONAL INFO: GM 5.7L V8	

CLIENT	
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COMMENTS This engine has a serious antifreeze contamination problem. You can see the coolant in the high levels of potassium and sodium. The contamination caused the oil to oxidize, forming a significant amount of solid material (see insolubles at 42% of the sample). The antifreeze is also causing serious bearing wear (copper, lead, tin) and poor wear at rings and pistons (chrome and aluminum) and steel parts like cylinders and rotating shafts (iron). Fuel is also present. The oil was too thick to get a viscosity reading.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	20,000						
	Sample Date	11/2/2018						
	Make Up Oil Added							
	ALUMINUM	18						9
	CHROMIUM	9						1
	IRON	115						28
	COPPER	26						4
	LEAD	42						6
	TIN	9						1
	MOLYBDENUM	114						33
	NICKEL	1						1
	MANGANESE	4						3
	SILVER	0						0
	TITANIUM	8						1
	POTASSIUM	1415						4
	BORON	34						45
	SILICON	90						9
	SODIUM	1977						48
	CALCIUM	682						1229
	MAGNESIUM	284						332
	PHOSPHORUS	325						707
	ZINC	306						808
	BARIUM	0						3

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°						
	cSt Viscosity @ 100°C	THICK					
	Flashpoint in °F	325	>375				
	Fuel %	2.5	<2.0				
	Antifreeze %	3.95	0.0				
	Water %	0.0	0.0				
	Insolubles %	42.0	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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