



OIL REPORT

LAB NUMBER: J61730

UNIT ID: 2011 SIERRA

REPORT DATE: 9/18/2017

CLIENT ID: 108531

CODE: 20/32

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: GM 5.3L V-8
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Mobil 1 5W/30
OIL USE INTERVAL: Miles

CLIENT

KYLE HOTCHKIN
4070 SIERRA DR
TUSCALOOSA, AL 35406

PHONE: (605) 354-6253
FAX:
ALT PHONE:
EMAIL: kyle.hotchkin@nucor.com

COMMENTS

KYLE: There's still quite a bit of metal present, but this sample is far and away better than the last. Aluminum and iron (pistons and steel parts) have improved significantly. Chrome held steady. Copper increased slightly, so it still shows a lot of brass/bronze wear. If you repaired the engine or installed new parts, wear may continue to improve. No fuel or coolant was found, and the viscosity is correct this time. Still, there's a lot of metal so keep an eye on this engine. Try just 3,000 miles next time and check back.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES	5,000					UNIVERSAL AVERAGES
	MI/HR on Unit	74,777		69,887					
	Sample Date	9/8/2017		3/4/2017					
	Make Up Oil Added	0 qts		0.5 qts					
	ALUMINUM	16	30	44					3
	CHROMIUM	3	3	3					1
	IRON	74	120	166					19
	COPPER	99	96	92					24
	LEAD	0	1	1					6
	TIN	0	2	3					1
	MOLYBDENUM	85	78	70					74
	NICKEL	1	2	2					1
	MANGANESE	4	5	5					6
	SILVER	0	0	0					0
	TITANIUM	0	0	0					1
	POTASSIUM	3	4	4					4
	BORON	29	28	26					43
	SILICON	10	10	10					11
	SODIUM	6	6	5					55
	CALCIUM	977	959	941					2001
	MAGNESIUM	741	702	663					198
	PHOSPHORUS	682	624	566					692
	ZINC	782	738	694					820
	BARIUM	0	0	0					0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	57.9	55-62	52.9				
	cSt Viscosity @ 100°C	9.61	8.8-11.1	8.15				
	Flashpoint in °F	395	>365	375				
	Fuel %	<0.5	<2.0	<0.5				
	Antifreeze %	0.0	0.0	0.0				
	Water %	0.0	0.0	0.0				
	Insolubles %	0.3	<0.6	0.4				
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com