

**ANALYSIS REPORT**

Machine Type: Gasoline Engine **Received:** 07/25/2018 **ATTN:** Nick Mikitka
Fluid In Use: ATM 10W30 SS **Report:** 07/25/2018
Lube Brand: AMSOIL **Model:** Silverado 2002 5.3
Make: CHEVROLET ATM 10w30 AZO 0w30 AZF 0w40 AZO 0w30

Date		7/21/2018	5/3/2017	1/26/2016	4/20/2015			
Lab Number	NEW OIL	2289349	1942215	1626070	1457065			
Lube Miles		5,147	9,388	5,245	11,304			
Machine Miles		182,156	171,549	160,196	154,951			

SPECTROSCOPIC ANALYSIS (ppm) ASTM D5185 Mod

Iron	0	33			33			
Copper	0	7			13			
Lead	0	4			10			
Aluminum	0	6			5			
Tin	0	5			2			
Nickel	0	0			1			
Chromium	0	2			1			
Titanium	0	4			0			
Vanadium	0	0			0			
Silver	0	0			0			
Silicon	3	64			16			
Boron	259	119			40			
Calcium	3183	1581			2779			
Magnesium	13	873			24			
Phosphorus	733	681			627			
Zinc	832	761			778			
Barium	0	0			0			
Molybdenum	138	180			66			
Sodium	10	8			27			
Potassium	0	0			0			

PHYSICAL PROPERTIES

Viscosity @ 40C ASTM D 445 Mod		67.1			70.8			
Viscosity @ 100C ASTM D 445 Mod	10.1	10.7			11.5			
Viscosity Index ASTM D 2270 *		149			157			
Base Number	11.05 †	2.54 †			1.84 †			
Acid Number ASTM D 974		2.86			3.51			

IR (Indexing Numbers) JOAP Method

Oxidation	62	61	67	77	77			
Nitration	5	13	15	14	18			
Antiwear	24	21	21	23	24			
Sulfation	54	58	63	68	87			
Glycol	0	0	0	0	0			
Soot (%)	0.0	0.0	0.0	0.0	0.0			

SINGLE COMPONENT TESTS

Water ppm		1336 (a)	1133 (a)	781 (a)	390 (a)			
Fuel Dilution % By GC *		0.3	1.8	0.8	1.1			

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