

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: OILANA-7501-4483 Company Name: SGM LLC Contact: STUART MILLER Address: 414 N DUPONT RD WILMINGTON, DE 19804 US Phone Number: 516-377-8151		Unit Number: 97 LC Secondary ID: Component Type: UNLEADED GASOLINE ENGINE Manufacturer: TOYOTA Model: 4.5L Application: AUTOMOTIVE Sump Capacity: 11 qt		Tracking Number: 11333D02097 Lab Number: A-374671 Lab Location: Atlanta Data Analyst: JUK Sampled: 13-Dec-2013 Received: 19-Dec-2013 Completed: 20-Dec-2013	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: FULLFLOW & BYPASS Micron Rating: 2				Product Manufacturer: AMSOIL Product Name: ASL SIG SIGNATURE SERIES Viscosity Grade: SAE 5W30	
Comments	Base Number is SIGNIFICANTLY LOW. Flagged additive levels are different than what should be present for the lubricant that is identified for this unit. (This does not imply that the lubricant does not meet proper API, SAE, or ISO classifications.); Lubricant and filter change acknowledged; Sample information has been added or tests have been rerun or additional testing was added and the report has been regenerated;				

	Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)						Additive Metals (ppm)				
Sample #	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorous	Zinc
1	6	0	0	2	1	2	0	0	0	0	15	14	0	0	152	0	0	0	49	40	3519	0	622	727

Sample #	Sample Information							Contaminants			Fluid Properties					
	Date Sampled	Date Received	Lube Time	Unit Time	Lube Change	Lube Added	Filter Change	Fuel Dilution	Soot	Water	Viscosity 40°C	Viscosity 100 °C	Acid Number	Base Number	Oxidation	Nitration
			mi	mi		qt		% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm
1	13-Dec-2013	19-Dec-2013	14261	190015	Yes	0	Yes	< 1 - Estimate	< .1	< .1 - FTIR		11.3		2.41	56	18

Sample #	Particle Count (particles/mL)										Additional Testing				
	ISO Code Based On 4/6/14	> 4 µm	> 6 µm	> 10 µm	> 14 µm	> 21 µm	> 38 µm	> 70 µm	> 100 µm	Test Method					
1	//														

Comments are advisory only and are based on the assumption that the sample and data submitted are valid. Missing fluid or component information limits the evaluation. No warranty is expressed or implied.

Historical  
Comments