Lubricant Analysis Report

North America: +1-877-808-3750
Latin America: +1-317-808-3750 / +502-3093-6466 (WhatsApp)
Europe: +1-317-808-3750

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number:	122750-0001-0000	Component ID:	# 5743-KIA	Tracking Number:	00009669769
Company Name:	ARCH OIL COMMENTS	Secondary ID:		Lab Number:	Z-201553
Contact:		Component Type:	UNLEADED GASOLINE ENGINE	Lab Location:	Poznan
Address:		Manufacturer:	KIA	Data Analyst:	EAD
		Model:	STONIC 1,0T-GDI-G3LC	Sampled:	26-Jun-2021
Phone Number:		Application:	AUTOMOTIVE	Received:	**14-Jul-2021**
		Sump Capacity:	4 L	Completed:	19-Jul-2021

Filter Information		Miscellaneous Information	Product Information	
Filter Type:	FULLFLOW		Product Manufacturer:	TOTAL
Micron Rating:	0		Product Name:	QUARTZ INEO LL
			Viscosity Grade:	SAE 5W30

Comments	SILICON is high, however, there does not appear to be any wear as a result. SILICON sources can be abrasives (dirt, Alumina Silica), seals and gasket material, lube additive or lube supplement, and/or environmental contaminant; FUEL DILUTION is at a MODERATE LEVEL; FUEL DILUTION possibly caused by excessive idling; Lubricant and filter change acknowledged.

	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	Phosphorus	Zinc
1	12	0	1	4	19	0	0	0	0	0	**999**	2	0	0	133	0	5	0	81	13	1796	1	624	715

	Sample Information							Contaminants			Fluid Properties					
Sample #	Date Sampled	Date Received	Lube Time km	Unit Time km	Lube Change	Lube Added L	Filter Change	Fuel Dilution %	Soot %	Water %	Viscosity 40°C cSt	Viscosity 100 °C cSt	Acid Number mg KOH/g	Base No. D4739 mg KOH/g	Oxidation abs/cm	Nitration abs/0.1 mm
1	26-Jun-2021	14-Jul-2021	7809	37616	Yes	0	Yes	2.8 - GC	<.1	<.1 - FTIR	62.4	11.2		3.55	16	12

	Particle Count (particles/mL)										Additional Testing
Sample #	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. Results relate only to the items tested. Missing fluid or component information limits the evaluation. No warranty is expressed or implied. Measurement uncertainty available upon request.

Historical Comments