



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 Company Name: ARCH OIL COMMENTS Contact: Address: Phone Number:		Component ID: #7132-1 VW GOLF GTI MK2 8V Secondary ID: Component Type: UNLEADED GASOLINE ENGINE Manufacturer: VOLKSWAGEN Model: GOLF Application: AUTOMOTIVE Sump Capacity:		Tracking Number: 00009723898 Lab Number: Z-294287 Lab Location: Poznan Data Analyst: JPH Sampled: 15-Aug-2022 Received: 21-Dec-2022 Completed: 22-Dec-2022	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: FULLFLOW Micron Rating: 0		Wildcard 1: +10% MANNOL 9929		Product Manufacturer: SHELL Product Name: HELIX ULTRA Viscosity Grade: SAE 5W40	
Comments	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. LEAD is at a MODERATE LEVEL and may be OVERLAY METAL from MAIN/ROD BEARINGS; OXIDATION is at a MODERATE level, which may be due to extended drain interval or high operating temperature. Viscosity is SLIGHTLY LOW. Causes include contamination, incorrectly identified viscosity grade, or adding a different viscosity grade to the component. Please provide this units sump capacity with next sample.				

Sample #	Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additive Metals (ppm)					
	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
BL	2	0	0	0	0	0	0	0	0	0	7	3	0	0	92	0	0	0	234	1143	1484	0	884	970
1	10	0	0	1	9	15	0	0	0	0	16	3	0	0	88	1	0	0	184	916	1694	0	880	1023

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 No. D4739	Oxidation	Nitration
			km	km		gal		%	%	%	cSt	cSt	mg KOH / g	mg KOH / g	abs / cm	abs / 0.1mm
BL	N/A	11-Oct-2019	0	0	Unk	0	Unk			<.1 - FTIR		12.8	2.78		7	7
1	15-Aug-2022	21-Dec-2022	2000	303266	Unk	0	Unk	1.0 - GC	<.1	<.1 - FTIR		12.1		9.97	24	10

Sample #	Particle Count (particles/mL)										Additional Testing	
	ISO Code	> 4	> 6	> 10	> 14	> 21	> 38	> 70	> 100	Test Method	Base No. D2896	
	Based On	particles /	particles /	particles /	particles /	particles /	particles /	particles /	particles /		mg KOH /	
	4/6/14	mL	mL	mL	mL	mL	mL	mL	mL		g	
	BL	/ /									11.9	
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.