



Lubricant Analysis Report

North America: +1-877-808-3750
 Latin America: +1-317-808-3750 / +502-3093-6466 (WhatsApp)
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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: #4805-2 Secondary ID: AUDI A2 2003R. 1.6L 110HP Component Type: UNLEADED GASOLINE ENGINE Manufacturer: AUDI Model: A2 Application: TRANSPORTATION Sump Capacity:		Tracking Number: 00009606574 Lab Number: Z-176653 Lab Location: Poznan Data Analyst: EAD Sampled: 29-Jan-2021 Received: 11-Feb-2021 Completed: 12-Feb-2021	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: Information Requested Micron Rating: 0				Product Manufacturer: SHELL Product Name: HELIX 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. Viscosity is MODERATELY LOW. Causes include contamination, incorrectly identified viscosity grade, or adding a different viscosity grade to the component. Copper is at a MINOR LEVEL; MINOR POTASSIUM could be a coolant indicator; Coolant leaks at this level will most likely not be detectable through normal diagnostics; Suggest MONITORING COOLANT LEVEL closely between samples; 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
1	8	0	0	2	37	2	0	0	0	0	16	4	27	0	36	0	0	0	6	7	3130	0	850	1046

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		% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm
1	29-Jan-2021	11-Feb-2021	6000	207000	Unk	0	Unk	1.3 - GC	<.1	<.1 - FTIR		11.8		6.81	13	15

Sample #	Particle Count (particles/mL)										Additional Testing
	ISO Code	> 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