

Lubricant Analysis Report

North America: +1-877-808-3750
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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: # 5576 Secondary ID: Component Type: DIESEL ENGINE Manufacturer: MERCEDES BENZ Model: OM651 Application: TRANSPORTATION Sump Capacity: 6 L		Tracking Number: 00009672026 Lab Number: Z-191286 Lab Location: Poznan Data Analyst: CMD Sampled: 2021 Received: 13-May-2021 Completed: 19-May-2021	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: Information Requested Micron Rating: 0		Wildcard 1: +0.8% NEO PROTEC GT		Product Manufacturer: RAVENOL Product Name: RUP RACING ULTRA PERFORMANCE Viscosity Grade: SAE 5W40	
Comments	SUGGEST investigating source of CONTAMINATION. Silicon is at a SEVERE LEVEL; SILICON sources can be abrasives (dirt, Alumina Silica), seals and gasket material, lube additive or lube supplement, and/or environmental contaminant; OXIDATION is at a SIGNIFICANT level. Drain interval may be over-extended, or unit may be running too hot. Resample at half interval.				

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	15	1	0	3	0	0	0	0	0	0	999	16	0	0	95	0	1	0	149	25	1850	0	731	843

Sample Information								Contaminants			Fluid Properties					
Sample #	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		L		% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm
1	N/A	13-May-2021	4609	62440	Unk	0	Unk	2.0 - GC	0.1 - E2412	<.1 - FTIR	74.5	12.6	1.69	6.01	29	9

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