



# Lubricant Analysis Report

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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: 8608 MERCEDES B 180 CDI E Secondary ID: 2013, 1800ccm, Diesel Component Type: DIESEL ENGINE Manufacturer: MERCEDES BENZ Model: <a href="#">Information Requested</a> Application: AUTOMOTIVE Sump Capacity: 7 L		Tracking Number: I2401169614 Lab Number: Z-377775 Lab Location: Poznan Data Analyst: ZXH Sampled: 03-Jan-2024 Submitted: 11-Jan-2024 Received: <b>19-Jan-2024</b> Completed: 23-Jan-2024	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: <a href="#">Information Requested</a> Micron Rating: 0		Wildcard 1: Aral Supertronic K 5W-30 Tuning @165PS/350Nm, Wildcard 2: EGROff		Product Manufacturer: ARAL Product Name: SUPER TRONIC Viscosity Grade: SAE 5W30	
Comments	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. FUEL DILUTION is at a MINOR LEVEL. FUEL DILUTION possibly caused by excessive idling; Please provide COMPONENT MODEL number to compare data to the correct standards for this component. 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	21	0	1	4	6	0	0	0	0	0	5	1	4	1	33	1	0	0	138	388	1175	0	690	789

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		%	%	%	cSt	cSt	mg KOH / g	mg KOH / g	abs / cm	abs / 0.1mm
1	03-Jan-2024	19-Jan-2024	8800	184500	Yes	0	Yes	3.1 - GC	<.1	<.1 - FTIR	62.2	10.7	2.16	4.42	13	9

Particle Count (particles/mL)										Additional Testing	
Sample #	ISO Code	> 4	> 6	> 10	> 14	> 21	> 38	> 70	> 100	Test Method	Viscosity Index
	Based On 4/6/14	particles / mL	particles / mL	particles / mL	particles / mL	particles / mL	particles / mL	particles / mL	particles / mL		Index Number
1	/ /										163

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.