



# 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: #7132-2   BMW 318D F30 B47 Secondary ID: Component Type: DIESEL ENGINE Manufacturer: BMW Model: 318D Application: AUTOMOTIVE Sump Capacity:		Tracking Number: 00009723897 Lab Number: Z-294296 Lab Location: Poznan Data Analyst: AC Sampled: 24-Aug-2022 Received: 21-Dec-2022 Completed: 21-Dec-2022	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: FULLFLOW Micron Rating: 0		Wildcard 1: +10% RL EYRO S. 5W30		Product Manufacturer: SHELL Product Name: HELIX ULTRA ECT C2/C3 Viscosity Grade: SAE 0W30	
Comments	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. OXIDATION is at a MINOR level, which may be due to extended drain interval or high operating temperature.				

	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	39	2	3	8	5	0	0	0	0	0	8	31	6	2	69	1	1	0	104	51	1697	0	708	809

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		gal		%	%	%	cSt	cSt	mg KOH / g	mg KOH / g	abs / cm	abs / 0.1mm
1	24-Aug-2022	21-Dec-2022	8669	144261	Unk	0	Unk	<2 - Estimate	0.3 - E2412	<.1 - FTIR		11.5		5.00	21	9

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