Lubricant Analysis Report

Cummins Sales and Service

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0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information	Component Information	Sample Information
	Component ID: 22RAM2500 E Secondary ID: Component Type: DIESEL ENGINE Manufacturer: DODGE INDUSTRIAL Model: RAM 2500 Sump Capacity:	Lab Number: S-069199 Lab Location: Salt Lake City Data Analyst: ARF Sampled: 30-Oct-2023 Received: 03-Nov-2023 Completed: 09-Nov-2023
Filter Information	**Miscellaneous Information**	**Product Information**
Filter Type: Information Requested Micron Rating: 0		Product Manufacturer: SHELL Product Name: ROTELLA T6 FULL SYNTHETIC Viscosity Grade: SAE 5W40

Comments

Viscosity is SIGNIFICANTLY LOW. Causes include contamination, incorrectly identified viscosity grade, or adding a different viscosity grade to the component. Increased component wear possible. If grade is misidentifed, it can be updated in HORIZON. Is the FLUID VISCOSITY GRADE correctly identified? FUEL DILUTION is at a MODERATE LEVEL; Copper is at a MINOR LEVEL; COPPER is most likely LEACHING into the oil via the OIL COOLER core tubing. This typically DOES NOT REQUIRE MAINTENANCE ACTION unless there is evidence of COOLANT in the oil. Please provide this units sump capacity with next sample. Maintenance action indicated at time of submission (fluid/filter change , filtration, etc.) will have corrected the issue this system is exhibiting. No further maintenance action is recommended at this time.

	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	40	1	0	3	54	0	1	0	0	0	13	4	5	0	23	0	1	0	76	195	1754	1	871	970

	Sample Information							Contaminants			Fluid Properties					
Sample #	Date Sampled	Date Received	Lube Time h	Unit Time h	Lube Change	Lube Added gal	Filter Change	Fuel Dilution %	Soot %	Water %	Viscosity 40°C cSt	Viscosity 100 °C cSt	Acid Number mg KOH / g	Base No. D4739 mg KOH / g	Oxidation abs / cm	Nitration abs / 0.1mm
1	30-Oct-2023	03-Nov-2023	4743	9315	Yes	0	Yes	4.7 - GC	<.1	<.1 - FTIR		10.2		4.05	12	8

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