Coolant Analysis Report

North America: +1-877-251-8315

JG LUBRICANT SERVICES
"Maintaining Oil and Equipment Through Science"

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information	Component Information	Sample Information
[redacted]	Component ID: [redacted] Secondary ID: NEWMAR STAR 2017 Component Type: COOLANT - CONVENTIONAL EG USED Manufacturer: CUMMINS Model: Information Requested Application: RECREATIONAL VEHICLE System Capacity:	Tracking Number: [redacted] Lab Location: Indianapolis Data Analyst: ENC Sampled: 02-Dec-2022 Received: 08-Dec-2022 Completed: 09-Dec-2022
	Miscellaneous Information	**Product Information**
		Product Manufacturer: Information Requested Product Name: Information Requested

Comments

Suggest flushing this system with water that meets specifications and install new recommended coolant; Zinc is at a SEVERE level and may be due to metal corrosion of brass or galvanized steel components. Zinc may indicate corrosion in the radiator, heat exchanger, or oil cooler, or may be residual from a previous issue. The nitrite level is low which may be due to precipitation from over treatment with inhibitor, an air leak, over extending service, or mixing coolant formulations. The pH level is moderately low and below specifications. This may indicate inadequate buffers, an air leak, combustion gas leak, localized over heating, mixing coolant formulations, or over extending coolant use. Copper is at a SIGNIFICANT level, copper can attack other metals in the cooling system; Copper sources may be corrosion or erosion of the radiator (tubes, top tank, side-plates), heat exchanger, oil cooler, charge air cooler, thermostat, and/or residual from a previous issue. Resample in 60 days; Please provide missing COOLANT MANUFACTURER and PRODUCT NAME;

	Sample Information							Corrosion Metals (ppm)								Contaminants (ppm)		Corrosion Inhibitors (ppm)				Carrier Salts (ppm/10)	
Sample #	Date Sampled	Date Received	Coolant Time mi	Unit Time mi	Coolant Change	SCA Added gal	Filter Change	Iron	Aluminum	Copper	Lead	Tin	Silver	Zinc	Titanium	Calcium	Magnesium	Silicon	Phosphates	Boron	Molybdenum	Sodium	Potassium
1	02-Dec-2022	08-Dec-2022	0	0	No	0	No	6	13	0	2	0	0	44		3	0	18	41	351	11	222	41

	Visual Testing						
#	Foam	Color	Oil	Fuel	Magnetic Precipitate	Non-Magnetic Precipitation	Odor
1	None	Clear Dark Pink	None	None	None	None	None

	Basic Testing								
#	Freeze Point (°F)	Boil Point (°F)	Antifreeze Percent (%)	pH Waters (pH)	Total Hardness (ppm)	Nitrite (ppm)	Specific Conductance (µS / cm)	SCA Number (units / gal)	Carboxylic Acid (Pass / Fail)
1	-40	226	53	7.6	9	550 - Strip	2483	0.5	

	Additional Testing
Sample #	Total Dissolved Solids ppm
1	1316