



# RV FLUID ANALYSIS

## **BLOOD TESTS FOR YOUR RV: Why Complete Fluid Analysis Significantly Reduces Your Risk of Purchasing the Seller's Engine, Transmission or Generator Problems**

JG Lubricant Services (JGLS), a leading US fluid analysis firm that provides oil and coolant analysis on samples pulled during NRVIA certified RV inspections. The NRVIA fluid sampling program includes engine oil, automatic transmission fluid, generator oil and engine coolants (*main engine and generator engine*).

Unlike most other RV inspectors, NRVIA certified Level II inspectors are specially trained to pull samples on these complex and expensive RV powertrain and power generation components. Periodically, JGLS does a statistical review of NRVIA sample data and provides our organization with a summary of what our RV inspection samples show.

The table below shows a summary of the percentage of **ABNORMAL** and **CRITICAL** fluid analysis test reports based on samples drawn from inspected RVs over the past 5 years (*2015 to present*). Data are listed by fluid (component) type.

The NRVIA has determined that a significant number of used RVs may have engine, automatic transmission or generator issues. We would not consider those RVs to be in "road ready" condition as they may be in need of maintenance and/or repairs. Fluid analysis looks at these complex and expensive driveline and power generation components from the inside. It's a whole new level of diagnostics that you won't find except from an NRVIA certified inspector.

Some test reports may only indicate the need for an oil or coolant change; but others may indicate more serious wear or contamination issues that need immediate attention. Adding complete fluid analysis to your NRVIA certified RV inspection will prove to be a wise decision on your part and will protect you from "inheriting" the seller's problems. Oil and coolant analysis could mean the difference between having peace of mind and having major repair bills, vehicle downtime, and/or expensive road calls.

Just like a home inspection, you need the inspection to cover everything .... And that includes fluids.

As you can see, data collected from a great number of actual RV inspections, show there is a good chance that fluid analysis will find at least one maintenance issue that may need attention. So, why not find that out during your pre-purchase inspection. Adding complete fluid analyses significantly reduces your risks of purchasing the seller's engine, transmission or generator problems.

We strongly recommend having us pull the complete series of fluid samples while we conduct your inspection. It will protect you from major issues with these expensive components. If our samples find an issue, you will have the chance to work with the seller to possibly negotiate it in the deal. Again, this is just like a home inspection for RVs. Fluid analysis can help with reducing your risks. Fluid analysis reports are included with in your RV inspection report.

### Summary Chart

RV Component	% Abnormal	% Critical
Unleaded Gasoline Engine Oils	58	7
Diesel Engine Oils	18	2
Engine Coolants	51	11
Automatic Transmission Fluids	34	3
Generator Oils	21	3
Generator Coolants	43	8

**ABNORMAL** - Indicates deficiencies related to the oil and/or coolant properties where a simple oil or coolant change would alleviate the problem.

**CRITICAL** - Indicates more immediate problems related to contamination and/or component wear. These issues may require immediate maintenance and/or repair.