



THE BENEFITS OF RV FLUID ANALYSIS

BLOOD TESTS FOR YOUR RV? How Complete Fluid Analysis Significantly Reduces Your Risk of Purchasing the Seller's Engine, Transmission or Generator Problems.

RV Services and Solutions provides fluid analysis through JG Lubricant Services on fluid samples pulled during NRVIA certified RV inspections.

The NRVIA fluid sampling and analysis program includes review of the condition of the engine oil, automatic transmission fluid, generator oil and engine coolants (*both main engine and generator engine*), as applicable. NRVIA certified Level II RV inspectors are specifically trained to draw samples from these chassis' installed powertrain and power generation components.

JG Lubricant Services periodically reviews NRVIA fluid sample data and provides us with a summary of what the inspections show. The table [on page 2] shows the most recent summary of results. The data represent samples drawn over the past 5 years and are summarized by Component Type and show the percent of tests that come back as either **ABNORMAL** or **CRITICAL**.

As shown in the table, we have found that a significant number of sampled RV components show alarming levels of Abnormal or Critical test results. These important systems would not be considered 'road ready' due to the need for either additional preventative maintenance, further diagnostics or possible repair.

Think of it this way ... fluid analysis gives us the ability to "look inside" these complex and expensive driveline and power generation components. Just pulling the dipstick to check for fluid is not enough. Fluid sampling and analysis permits the next level of inspection. There's just no other way to get this kind of information before you purchase your RV, except through fluid sampling and analysis from your certified NRVIA inspector's report. Most abnormal reports indicate something to be monitored or perhaps only the need to change the oil or coolant. These items can often be negotiated into the deal just as in a home inspection. Critical reports, the other hand, show a more immediate

need for attention as they may indicate either internal part wear or more serious fluid contamination issues.

Complete fluid analysis has proven to be a real eye opener to buyers as it reveals the true condition of these expensive driveline and power generation components. On more than a few occasions, fluid analysis results have been the deciding factor in proceeding with the purchase. Fluid analysis provides protection against the chance that you might inherit someone else's existing engine, transmission or generator problem. It could definitely make the difference between having peace of mind and having to continually worry whether you might experience costly powertrain or generator repairs down the road. Just as with home inspections, the RV inspection should cover all major items including fluids. That is why NRVIA inspectors recommend complete fluid analysis. As you can see from the tabulated data, it turns out there's a good chance that fluid sampling and analysis may find at least one maintenance deficiency issue.



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Finding one critical issue will alone pay for the complete fluid analysis. Better to find issues with these complex and expensive systems during the pre-purchase inspection. Again, adding complete fluid analysis significantly reduces the risk of unknowingly purchasing engine, transmission, generator or cooling system problems.

The NRVA strongly recommends having the complete series of fluid samples drawn during your pre-purchase inspection. If any of your test reports indicate issues, you'll have the chance to work with the seller to get them taken care of as part of the deal. Fluid sampling and analysis will reduce risks and give you peace of mind.



“Fluid analysis test reports are a very important part of a pre-purchase inspection.”

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 maintenance issues related to diminished oil or coolant properties where a simple oil and filter or coolant change should alleviate the problem.

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

FLUID ANALYSIS AFTER YOU BUY YOUR RV

If you already own your RV, hopefully you had an inspector do fluid analysis. If you didn't, it's not too late to start! Fluid analysis has a number of benefits that can save you money in the long term.

The first thing fluid analysis does is create a baseline for where your engine or equipment is at that moment in time. Once a baseline is created, you can monitor your engine, transmission, coolant and generator and stay ahead of maintenance issues and potential costly breakdowns.

With our cars, we change the oil at mileage intervals. RV's are typically not driven as much as your car; therefore, the fluids can last longer. When samples are analyzed at the lab, they indicate if the fluid needs to be changed. Many times, it does not, and when you consider that an oil change on an RV can run between \$200 to \$300*, that's a big savings! Fluid analysis is a simple cost-effective way to care for your RV. *Based on the national average for an oil change on a diesel RV.

DID YOU KNOW YOU CAN DRAW YOUR OWN SAMPLES?

Call us today at 281.780.3770 and we can explain the process

Remember to have fun, and enjoy the journey!