

# Why You Should Add Fluid Analysis to your NRVIA Certified Inspection



Certified NRVIA<sup>1</sup> inspectors, like me, have been inspecting new and used RVs for a few years now and we've learned a lot about fluid analysis and how it can provide a whole new level of diagnostics for RV engines, transmission, generators and hot water heating systems. Fluid analysis provides the buyer with important information that you just can't get any other way. Unlike other RV inspectors, we are trained to pull samples from these complex systems so that our affiliate laboratories, JG Lubricant Services, can assess what's going on with the fluids and with the host components.

Our test reports provide accurate and repeatable data that enables the customer to "see for themselves". The reports are easy to understand, they are color-coded to point out the more important findings and give the customer an overall assessment of "Severity" along with comments on what was found and what to do about it. The reports point out potential problems that show up in oil and coolant (anti-freeze) testing. Recommendations may include such things as the need to change oil or coolant or the need for more in-depth diagnostics by an engine or transmission repair facilities.

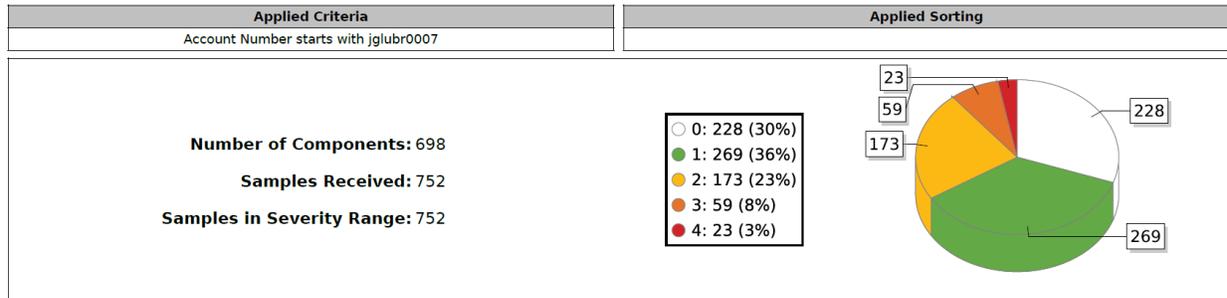
Page 2, Figures 1 and 2, show statistics on samples collected over the last four (4) years or so by NRVIA certified inspectors sampling motorized RVs similar to those you might be considering. It's clear from these data that it's extremely important to purchase fluid analysis for all the RV systems on the RV your considering. This includes the engine oil, the engine coolant, the transmission fluid, the generator oil, the generator coolant and, if so equipped, the hot water heating system.

It turns out that fluid analysis reports have already been quite affective in protecting clients from RV purchases that might have been a "nightmare" had it not been for the things we discovered in the fluid analysis reports. It's saved many a buyer from experiencing "buyer's remorse" by allowing us to find serious problems in these complex and expensive systems. The fluid analysis points out problems within these major mechanical systems that, if left unchecked, could potentially lead to expensive repairs, road calls and/or extended vehicle downtime. So, if something shows up in the test report that needs attention, wouldn't you agree that now's the time, before the purchase is made, to factor fluid analysis into the sale or negotiate maintenance and/or repair items into the deal just like you'd do during a home inspection. Don't take a chance ..... let us pull samples on all the test points while we're there doing your inspection. You'll have the peace of mind knowing that you know everything you need to know on these systems prior to the purchase.

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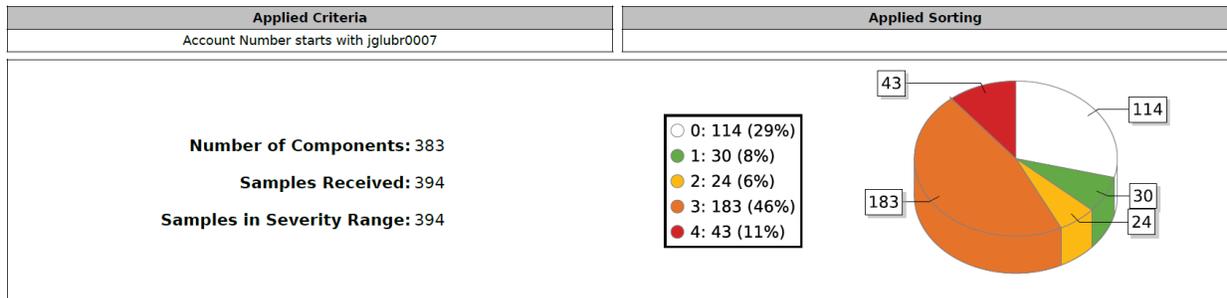
<sup>1</sup> National RV Inspection Association ([www.nrvia.org](http://www.nrvia.org))

**Figure 1: Oil Analysis Test Results (Motorized RVs)**



**Oil Sample Summary** - The above data, provided by JG Lubricant Services, show that 34% of oil samples came back “ABNORMAL” and 3% come back “CRITICAL”. *Note:* Over 700 oil samples were used to assemble this data. All samples were taken by NRVIA certified inspectors from RV engines, transmissions and generators.

**Figure 2: Coolant Analysis Test Results (Motorized RVs)**



**Coolant Sample Summary** - The above data, provided by JG Lubricant Services, show that 63% of coolant (anti-freeze) samples come back “ABNORMAL” and 11% come back “CRITICAL”. *Note:* Nearly 400 coolant (anti-freeze) samples were used to assemble this data. All samples were taken by NRVIA certified inspectors from RV engine, generator cooling systems and/or hot water heating systems.