POLARIS™ Laboratories

Expanded Fuel Testing Can Reduce Expenses, Pinpoint Issues to Minimize Fleet Downtime

TECHNICAL BULLETIN

Because fleet managers spend more on fuel than any other operating expense, POLARIS Laboratories™ has developed an extensive range of fuel testing that can confirm the quality of bulk deliveries and quickly resolve what might be causing the most common issues that have the biggest monetary effect on fleet productivity.

Diesel Fuel Troubleshooting Test Packages
Optimum performance depends on resolving issues before they result in unnecessary downtime. While POLARIS can always customize test slates specific to a customer's goals and objectives, our new troubleshooting packages can identify contamination issues as well as possible causes for:

- fuel filter plugging
- smoking
- loss of power
- poor injector performance
- malfunctioning throttle position sensors
- sticking valves

These are informative packages to consider as they can provide vital information for deciding to perform more extensive fuel quality testing.

Diesel Fuel Quality Test Packages
Equipment reliability starts with fuel quality. Confirm that bulk tank deliveries meet OEM specifications and cleanliness standards that could affect equipment warranty requirements or violate EPA standards for sulfur and biodiesel content. These packages also evaluate how well the fuel can be expected to perform under both summer and winter weather conditions.

Diesel Fuel Wear Prevention Test Packages
Testing fuel for wear can identify water contamination, excessive particles or issues with lubricity specifications that could affect the performance of fuel system components and eventually lead to premature engine failure.

Biodiesel Fuel Test Packages
This package addresses some of the most common problems users experience with biodiesel blends:

- water contamination
- presence of bacteria, fungi and mold
- oxidation and oxidation tendencies

It will also confirm biodiesel content and determine possible reasons for poor cold weather performance. Like petroleum-based diesel, biodiesel can contribute to fuel filter plugging if physical properties aren't monitored regularly. Suitability for use is more of a concern with biodiesel as its natural composition allows for a typical shelf life of about six months. As degradation begins, a natural breeding ground for biological growth can develop quickly making testing imperative.