

 *High Speed* 

Varnish Removal Service



Mobile Oil Reclamation



Varnish Removal Solutions

OILKLEEN has patented Electrostatic High Speed Varnish Removal Technology

OILKLEEN has developed patented electrostatic filtration technology that is being offered as a high speed varnish removal service. As lubrication systems operate, friction, heat, and contamination combine to degrade turbine oils and produce very small degradation by-products that settle throughout the system as varnish. With time, these particles attach themselves to surfaces throughout the turbine lubrication system producing a sticky coating. The insoluble oxidation by-products in turbine oils and hydraulic oils, are responsible for varnish, which are smaller than 1 micron in size, too small to be removed with traditional filters.

OILKLEEN has developed a unique patented high speed electrostatic varnish removal service that can process oil at rates of over 1000 gallons per hour plus remove water and larger contamination. The OILKLEEN varnish removal service can have your system varnish potential rating well below normal in just a couple of days. OILKLEEN engineers come on-site and perform this service for you. So there is no need to purchase equipment which needs maintained.

OILKLEEN On-Site Colorimetric Analysis:

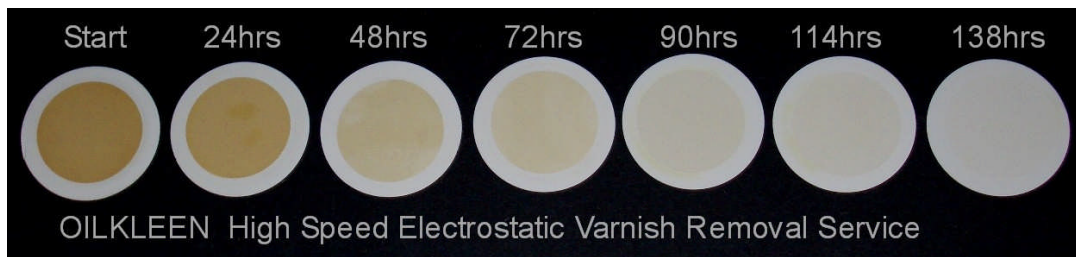


Figure 1: The OILKLEEN patented High Speed Electrostatic Varnish Removal Technology on a GE Frame 7FA

This example of the results from the OILKLEEN service is from a GE Frame 7FA where the Varnish Potential Rating (VPR), which is a scale of 1-100, started at a 90 VPR. As you can see from the results OILKLEEN was able to take a system from a 90 VPR to a 9 VPR in just 90 hours.

OILKLEEN engineers come on-site to your location and the OILKLEEN high speed electrostatic varnish removal system is attached to your gas turbine while your system is running so you never have to shut down. The OILKLEEN service allows you to have a varnish free system and dramatically reduce the risk of a servo trip due to varnish, without ever purchasing equipment. Our unique process is backed by patented technology, unmatched service, and the most technological on-site lab analysis in the world. Each visit includes on-site documentation which includes, colorimetric analysis, microscopic photo analysis, particle count, water content, and additive depletion analysis.

The OILKLEEN patented electrostatic technology removes insoluble oxidation by-products and also removes sub-micron particle contamination to 0.05 micron in size. This produces the most amazing ISO Cleanliness results in the industry. This microscopic photo analysis is from the same example in figure 1. As you can see even under the microscope the results are truly amazing.

OILKLEEN is "your solution to fluid contamination..."

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Microscopic Photo Analysis:

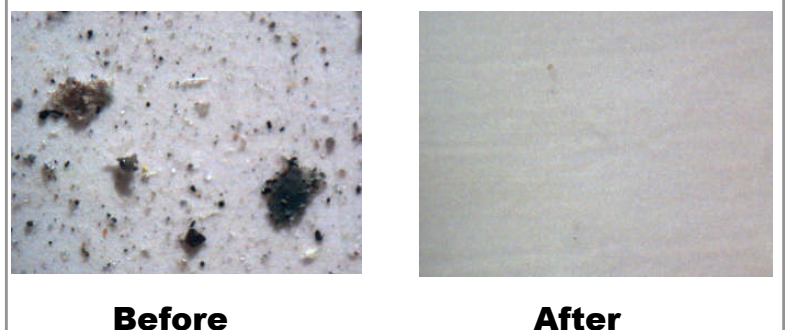


Figure 2: Microscopic analysis from the same GE Frame 7FA example in Figure 1