Mineral Oils Only               Synthetic Oils Only               Conditional Testing

Signum

SM

Advanced Test Slates


SIGNUM SERVICE

Duel Fuel Engine Analysis Extended Service

Landfill Gas Engine Analysis Extended Service

Natural Gas Engine Extended Service

Paper Machine Analysis Contamination Control

Powertrain Analysis Extended Service

Gas Turbine Analysis Contamination Control

Gas Turbine Analysis Maximum Service

Steam Turbine Analysis Contamination Control

Steam Turbine Analysis Maximum Service

System Analysis Contamination Control Reaction Hydraulic Analysis Heat Transfer Analysis Continued Service

Carbon residue (MCR)

Chlorine

Coolant indicator

Demulsibility @ 54˚C

Flash Point — Pensky Martens

Foam seq 1

Fuel dilution

Nitration

Nitration tendency

Nitro compounds

Oxidation

Oxidation tendency

Particle count

Particle quantifier index

RPVOT

Soot index

TAN

TBN

Ultracentrifuge

Viscosity at 100˚C

Viscosity at 40˚C

Water content (IR Vol%)

Water Karl Fischer (Vol%)

aluminum

barium

boron

calcium

chromium

copper

iron

lead

magnesium

molybdenum

nickel

phosphorus

potassium

silicon

silver

sodium

tin

zinc

titanium

vanadium

At ExxonMobil we are committed to helping companies be safer, more productive, and more aware of environmental care practices. By taking a proactive, predictive approach to maintenance through Signum Oil Analysis, you can prevent costly production delays and equipment failures, while helping to protect your workers as well as the environment.

Our field engineers work directly with product technical advisors to ensure accurate data and recommendations. Anchored by the full support and technical rigor of the ExxonMobil team of formulators, scientists and engineers, the Signum program uses the most sophisticated interpretation logic and the most extensive used-oil analysis limits database available today—a full spectrum of analytics to ensure accuracy.

By applying trending limits and complex comparison algorithms, Signum technicians can pinpoint a deviation from the norm, supplying further insights.

These unsurpassed resources combine to provide a technically meaningful and in-depth, precise analysis that you can trust.

Based on the analytical results, Signum’s recommendations and guided action steps help you enhance:

For more information about Signum Oil Analysis and other Mobil™-branded lubricants and services, call your local company representative or contact the Mobil Technical Helpdesk on TechDeskEurope@exxonmobil.com. Also visit mobilindustrial.com.

Here’s what our customers are saying:

“Signum Oil Analysis has helped our organization improve equipment lifespan and efficiency, while lowering maintenance cost and time.”

*Visit mobilindustrial.com to learn how certain Mobil™-branded lubricants may provide benefits to help minimize environmental impact. Actual benefits will depend upon product selected, operating conditions, and applications.*
Signum™ Oil Analysis—the preferred service for ExxonMobil customers

Since its introduction in 2003, Signum has built a world-class reputation for advancing productivity through timely, accurate in-service oil analysis. The program is designed to monitor critical indicators based on international standards and on the specifications of leading equipment builders.

Join the Signum Oil Analysis program and you’ll receive:

**Flexibility**
- to manage and update equipment registrations online
- to choose the specific analysis that fits your needs
- to create and sequence unique sample routes

**Expertise**
- to use proprietary test control limits set specifically for your equipment
- to identify problems, establish causes, and recommend actions

**Quality assurance**
- through best-in-class, regularly audited practices and methods
- through commitment to consistent, accurate analysis

**Why Signum?**
Advanced test slates
Oil-analysis programs might seem to be all the same, but look closer and you’ll see clear differences. Signum goes beyond simply supplying basic information. Many programs, for example, offer only one test slate of sample results even though it might not fit your application. Signum offers 12 application-specific test slates. Through the base and extended programs, you can choose among 25 testing options to select the one that best applies to your specific needs.

**Detailed recommendations**
After completing the used-oil analysis, Signum technicians provide specific and task-directed recommendations. Their online reports include:
- analysis evaluation to help direct your action steps
- trend graphs to demonstrate performance parameters
- sample data with labeled information to guide interpretation
- lubricant data assessing physical and chemical fluid properties
- metal analysis identifying wear, contaminants and additives levels

**Local field support**
Our on-site engineers provide reviews and documentation support to validate results and explain and help guide implementation of necessary steps. The expertise of ExxonMobil industrial lubrication professionals, along with equipment builder support, helps ensure that you fully understand the analysis and recommendations and can take the proper actions to keep your operation safe and productive.

**Monitoring the Lifeblood of your Business**
When you go to the doctor for a checkup, a nurse takes a blood sample to detect any problems that require treatment. That sample provides a lot of information about your health and can show potential concerns even before they develop.

In a similar way, lubricants are the lifeblood of your operational equipment, and in-service oil analysis is essential for diagnosing the health of your operation. A sample of oil provides crucial information that can help:
- increase productivity
- reduce unscheduled downtime
- improve equipment durability
- lessen lubricant consumption

There’s no denying the value of oil analysis. And when you’re choosing a service, you want state-of-the-art technology and years of field experience that ensure accurate, reliable data. You want a program with expert knowledge of Mobil™-branded products and one with a deep understanding of your operation.

That’s why ExxonMobil offers Signum Oil Analysis. Our program is designed to meet your needs and ensure that your operations run at maximum efficiency. We’ve drawn on a deep inventory of field performance results, as well as years of experience in oil analysis, to design a program that provides the best possible results.

To find out more about the Signum Oil Analysis program and how it can benefit your business, contact your ExxonMobil sales representative or your local distributor today.

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Health and Safety
Based on available information, this product is not expected to produce adverse effects on health when used for the applications referred to above and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS’s are available upon request through your sales contact office or via the Internet. This product should not be used for purposes other than the applications referred to above. If disposing of used product, take care to protect the environment.