RelaDyne®

FLUID ANALYSIS PROGRAM

What Can the RelaDyne Fluid Analysis Program Do for You?

RelaDyne Fluid Analysis is a preventive maintenance tool that provides a picture of both the fluid condition and the internal condition of a component or system without disassembly. Imagine being able to see exactly what's happening inside an engine, a gearbox or hydraulic system. With fluid analysis, you don't have to imagine.

Utilizing the RelaDyne Fluid Analysis program, you can:

- **Extend oil drain intervals**. Monitoring the condition of the oil optimizes drain intervals so that you gain the most out of the fluid you're paying for. Fewer oil changes minimize maintenance costs and maximize uptime.
- **Extend equipment life**. Monitoring system cleanliness and filtration efficiency allows you to keep your equipment longer and significantly reduce replacement costs.
- **Identify minor problems before they become major failures.** State-of the-art fluid analysis identifies dirt, wear particles, fuel dilution and coolant – contaminants that can cause catastrophic failure or significantly shorten equipment life.
- **Maximize asset reliability.** Testing and analysis ensures that units are up, running and making money.
- **Increase resale value.** Analysis results provide valuable sampling histories that easily justify higher equipment resale values.

How It Works

STEP A | Sample Information

First-time users need to establish a HORIZON® account, and new components (sample point) need to be added to your account. Next, fill out the QR (quick response) code label with the corresponding component ID and sample date. Attach the label to the sample jar and retain the other label for your records.

To improve accuracy and ensure faster processing, use the sample submission feature in HORIZON to send the sample information to the laboratory. Once the information is submitted online, the QR code will contain all required sample information needed for processing.

NOTE: Provide the laboratory with as much detailed equipment and fluid information as possible. More in-depth analysis is possible when the analyst knows the time on both the unit and fluid and whether the fluid and/or filter have been changed since last sampled.

STEP B | Laboratory Locations

A list of available laboratory locations is included on the form. Label your package with the laboratory address of your choice and ship it using a track-able shipping service, such as UPS or FedEx.

STEP C | Online Access

If the sample information cannot be submitted online, complete the sample form provided, and submit it to the laboratory with the sample.

IMPORTANT: Samples will be placed on hold if the component ID does not match an ID in your account and no component information is included on the paper form. Components can be added to your account online via HORIZON or by contacting Customer Service. Samples placed on hold for more than 30 days will be disposed.

Managing Preventive Maintenance

RelaDyne Fluid Analysis results are accessible via HORIZON®, a web-based data management application designed to help you manage your data and your program efficiently and effectively. Using this system, results are available almost immediately after sample processing is complete.

HORIZON Management Reports stretch the user's fluid analysis dollar by providing information that can affect significant change in everyday maintenance practices by:

- Keeping sampling schedules on track
- Identifying bottlenecks in turnaround time
- Influencing future purchasing decisions
- Monitoring samples submitted online
- Graphing to quickly pinpoint trends
- Updating equipment information or missing data your laboratory needs

To help you gain the most from HORIZON data management reports and features, HORIZON online training is available on demand. Each video and bulletin will provide an overview of application best practices. To download the latest information and resources, go online to www.eoilreports.com/library.

RELADYNE OIL ANALYSIS

SAMPLE KITS INCLUDE: Sold in packs of 10

- 3 oz. sample jar (1)
- Integrated prepaid label (1)
- Return plastic mailer (1)

FLEET & AUTOMOTIVE

MOBILE STANDARD (MSP)

- Elemental Metals Analysis (24 by ICP)
- Fuel Dilution % (Diesel/Gasoline Only)
- Fuel Soot % (Diesel/Gasoline Only)
- Viscosity @40 ˚or 100 ˚ C (Determined by fluid grade)
- Water by Crackle (estimate)

MOBILE ADVANCED (MAP)

- Acid Number or Base Number
- Elemental Metals Analysis (24 by ICP)
- Fuel Dilution % (Diesel/Gasoline Only)
- Fuel Soot % (Diesel/Gasoline Only)
- Nitration
- Oxidation
- Viscosity @40 ˚or 100 ˚ C (Determined by fluid grade)
- Water by Crackle (estimate)

INDUSTRIAL

INDUSTRIAL STANDARD (ISP)

- Acid Number or Base Number
- Elemental Metals Analysis (24 by ICP)
- Fuel Dilution % (Diesel/Gasoline Only)
- Fuel Soot % (Diesel/Gasoline Only)
- Nitration
- Oxidation
- Viscosity @40 ˚or 100 ˚ C (Determined by fluid grade)
- Water by Crackle (estimate)

INDUSTRIAL ADVANCED (IAP)

- Acid Number or Base Number
- Elemental Metals Analysis (24 by ICP)
- Fuel Dilution % (Diesel/Gasoline Only)
- Fuel Soot % (Diesel/Gasoline Only)
- Nitration
- Oxidation
- Particle Quantifier (Ferrous Density) or Particle Count (Pore Blockage or Laser Particle Count)
- Viscosity @40 ˚or 100 ˚ C (Determined by fluid grade)
- Water by Crackle (estimate)

*Samples that are compressors or in industrial applications will receive Karl Fischer if the Water by Crackle result is positive for water.
Particle Count/Particle Quantifier determined by applicable component type.

RELADYNE DIESEL FUEL ANALYSIS

SAMPLE KITS INCLUDE: Sold individually

- 1 quart aluminum sample canister
- Integrated label (1)
- Return mailing box [Postage not included] (1)

DIESEL FUEL CLEANLINESS (DFCP) **$44.90**

- Particle Count (Calibration 11171)
- Water by Karl Fischer (ppm)

Includes the testing required for our analysts to identify water and particulate contamination.

DIESEL FUEL STANDARD (DFSP) **$155.97**

- Bacteria, Fungi, Mold
- Elemental Metals Analysis (24 by ICP)
- Pour Point
- Thermal Stability
- Water & Sediment

DIESEL FUEL ADVANCED (DFAP) **$324.12**

- API Gravity
- Bacteria, Fungi, Mold
- Cetane Index
- Cloud Point
- Distillation
- Elemental Metals Analysis (24 by ICP)
- Flash Point - Pensky Martens (Closed Cup)
- Pour Point
- Sulfur
- Thermal Stability
- Viscosity @ 40 ˚C
- Water by Karl Fischer (ppm)
- Water & Sediment

SUPPLY LIST
100’ Plastic Tubing, 1/4” (Item# TR100)
100’ Plastic Tubing, 3/16” (Item# TR103)
Vacuum Pump (Red) for Oil (Item# VPUMPO)
Vacuum Pump (Blue) for Coolant (Item# VPUMPC)
Prepaid UPS Return Shipping Labels (Item# PPUPS)

RELADYNE COOLANT ANALYSIS

SAMPLE KITS INCLUDE: Sold in packs of 10

- *3 oz. sample jar (1)*
- *Integrated prepaid label (1)*
- *Return plastic mailer (1)*

RelaDyne® Reliability in Motion

CONVENTIONAL COOLANT HEALTH (CL2P)

- Antifreeze % (Ethylene or Propylene Glycol)
- Boil Point
- Elemental Metals Analysis by ICP
- Freeze Point
- Nitrite
- pH Waters
- SCA Numbers
- Specific Conductance
- Total Hardness
- Visuals (color, oil, fuel, foam, magnetic precipitate, non-magnetic precipitate & odor)

EXTENDED LIFE COOLANT HEALTH (CL3P)

- Antifreeze % (Ethylene or Propylene Glycol)
- Boil Point
- Elemental Metals Analysis by ICP
- Freeze Point
- HPLC (Benzotriazole, Tolyltriazole, Mercaptobenzothiazole, Benzoic Acid, Sebacic Acid, 2-Ethylehexanoic Acid, Octonooic Acid, P-Toluic Acid)
- Nitrate
- pH Waters
- SCA Numbers
- Specific Conductance
- Total Hardness
- Visuals (color, oil, fuel, foam, magnetic precipitate, non-magnetic precipitate & odor)

CONVENTIONAL COOLANT DIAGNOSTIC (CL4P)

- Antifreeze % (Ethylene or Propylene Glycol)
- Boil Point
- Elemental Metals Analysis by ICP
- Freeze Point
- Ion Chromatography (chloride, sulfate, nitrite, nitrate, phosphate, glycolate, acetate, formate & oxalate)
- pH Waters
- SCA Numbers
- Specific Conductance
- Total Hardness
- Visuals (color, oil, fuel, foam, magnetic precipitate, non-magnetic precipitate & odor)

EXTENDED LIFE COOLANT DIAGNOSTIC (CL5P)

- Antifreeze % (Ethylene or Propylene Glycol)
- Boil Point
- Elemental Metals Analysis by ICP
- Freeze Point
- HPLC (Benzotriazole, Tolyltriazole, Mercaptobenzothiazole, Benzoic Acid, Sebacic Acid, 2-Ethylehexanoic Acid, Octonooic Acid, P-Toluic Acid)
- Ion Chromatography (chloride, sulfate, nitrite, nitrate, phosphate, glycolate, acetate, formate & oxalate)
- Nitrite
- pH Waters
- SCA Number
- Specific Conductance
- Total Hardness
- Visuals (color, oil, fuel, foam, magnetic precipitate, non-magnetic precipitate & odor)

RelaDyne Program support powered by POLARIS Laboratories®

Send samples to the laboratory location nearest you.

SALT LAKE CITY
3060 W. California Avenue
Suite B
Salt Lake City, UT 84104

HOUSTON
10910 W. Sam Houston Pkwy. N.,
Suite 700
Houston, TX 77064-6314

INDIANAPOLIS
7451 Winton Drive
Indianapolis, IN 46268

Support
Call: 1.877.277.4990 | Email: custserv@eoilreports.com

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