



DEXSIL[®]

An ISO 9001 Registered Company

On-Site Environmental Testing

DEXSIL[®] CORPORATION

AN ISO 9001 REGISTERED COMPANY

For more than 30 years, Dexsil has designed and manufactured testing products for a variety of industries and applications. As a supplier of specialty chemicals to gas chromatographers, we have kept up-to-date with the many advances in the field of instrumental analytical chemistry and the truly remarkable detection capabilities that these instruments possess. But we have also realized that the latest, most expensive analytical instrumentation is not always the most efficient testing method. That's why we have learned to take a specific analytical problem and reduce it to the simplest, most reliable testing technique possible. This results in an inexpensive test kit



that can be used in the field with confidence by someone who is not a full time analytical chemist but is required to do testing as just one of many tasks.

Look through this catalog or visit our website www.dexsil.com and see if your testing requirements can be met by any of the products described. If you have questions about any of them, please call as we have technical people available to help you sort out specific applications. If there is a product that you could use that you don't see here, please call also, there's a good chance we may already be working on it.



Front and inside front cover photography by Gerri Mahon

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DEXSIL CORPORATION

QUALITY POLICY

Dexsil Corporation is a world leader in the manufacture of environmental test kits and is committed to developing, manufacturing and marketing accurate and cost-effective products for on-site testing of environmental pollutants. Our mission is to transform complicated, time-consuming and expensive laboratory methods into easy-to-use, reliable test kits that offer our customers an economical approach to solving their analytical needs. We believe that through increased testing and awareness, the general condition of the environment will improve.

Dexsil Corporation has built a reputation in the environmental community for developing high quality test kits. We maintain our reputation as an industry leader by continually improving our manufacturing standards and employing tough quality control in all aspects of our business.

GOALS

- Supply a high quality, reliable, cost-effective, and timely product.
- Provide high quality laboratory services.
- Respond to customer's needs by continually developing new, innovative products.
- Achieve customer satisfaction by providing quality technical support.

Dexsil Corporation believes that quality is the responsibility of all members in the organization and is fundamental to meeting our commitments to both our customers and ourselves.

GUIDELINES

- The customer is our most important asset. We will respond to our customer's needs and provide continual support to ensure a lasting relationship.
- Quality is achieved by educating all employees of their job responsibilities, supplying them with the necessary tools and allowing them to work in a positive, safe, clean environment.
- Employee dedication to his or her tasks and a sense of well being is achieved by providing a properly managed workplace.
- Consistent, high quality materials and timely service are obtained by working with dependable suppliers.
- Research is our commitment to our future.
- Set measurable objectives and review consistency with the Quality Policy.

Section Contents

Clor-N-Oil
Clor-N-Soil
L2000DX PCB/Chloride Analyzer
Dielectric Fluid
Soil
Water
Surface Wipes
PCB Accessories

Field Testing

PCB/Organic Chlorine Contamination



PCB in Dielectric Fluid • Soil • Surface Wipes

Dexsil's first PCB (polychlorinated biphenyl) test kit, Clor-N-Oil 50, was introduced in 1983 and has become the standard in testing for PCBs in transformer oil. In addition to the original 50 ppm kit, tests for 20, and 500 ppm are also available. Several improvements have been made to the Clor-N-Oil kits since their introduction including the addition of a "disposal ampule" which allows the kits to pass the USEPA TCLP and be disposed of as ordinary waste. A natural offshoot of the Clor-N-Oil kit was the Clor-N-Soil test for detecting the presence of PCBs in soil. In ten minutes, a Clor-N-Soil test will tell you whether your soil sample contains greater or less than 50 ppm PCB.

If you need a quantitative test for measuring PCBs in dielectric fluid, soil, and surface wipe samples, the portable L2000DX PCB/Chloride Analyzer provides a digital readout of analyte concentration from 3 ppm to 2000 ppm in soil and dielectric fluid. The L2000DX analysis procedure takes about the same amount of time as a Clor-N-Oil or Clor-N-Soil test, but has a lower limit of detection and can be used on a broader range of sample types.

Retrieving an oil sample from a transformer may sound like an easy task but quite often the oil itself is difficult to reach. Dexsil produces two types of disposable pipettes that are long enough to reach the oil in most transformers and thin enough to enter through the pressure relief valve. Each pipette has 12" tubing (choose flexible or rigid) connected to a bellows reservoir that can hold up to 20 ml of transformer oil. Custom lengths are available.

Dexsil's Wipe Test Kit is used to take on-site wipe samples for laboratory GC analysis. Wipe Test Kits are composed of a series of components that facilitate the sampling of surfaces in the field. They are designed to eliminate any chance of cross-contamination and make it easy to follow EPA sampling protocol. Storage vials, forceps, gauze pads, vials of chromatographic grade hexane, are supplied for each test. Chances of cross contamination are eliminated, and the hazards of transporting bottles of highly flammable solvents are greatly reduced.

Clor-N-Oil®

PCB Screening Kits For Electrical Insulating Fluids.



U.S. EPA SW-846 Method 9079

Designed to be used in the field, Clor-N-Oil is a fast, accurate method to test electrical insulating fluids for the presence of PCB. Each pocket-sized kit contains everything necessary to perform the test in less than 5 minutes. All premeasured reagents are sealed in glass ampoules for safe, fast, consistent and accurate results.

Clor-N-Oil is available for testing transformer oil at three different action levels; 20 ppm, 50 ppm, and 500 ppm. To eliminate the possibility of false negatives, Dexsil calibrates all Clor-N-Oil test kits on Aroclor 1242. Aroclor 1242 contains the least amount of chlorine (42% by weight) of the Aroclors found in electrical insulating fluids. By calibrating our test kits using Aroclor 1242, the user obtains the most conservative results. When Clor-N-Oil test kits turn purple, you can be assured your oil sample is below the action level.

Analytes	PCBs
Matrix	Transformer Oil
Detection Method	Fixed endpoint colorimetric titration
Action Levels	Above or Below 20, 50, 500 ppm
Analysis Time	Less than 5 minutes

	Catalog #
Clor-N-Oil 20	CL-020
Clor-N-Oil 50	CL-050
Clor-N-Oil 500	CL-500
(Patented)	
Packaged 20 kits to a shelf pack, 80 kits per case.	
Minimum order is 10 kits.	
Orders greater than 10 kits must be in multiples of 20.	

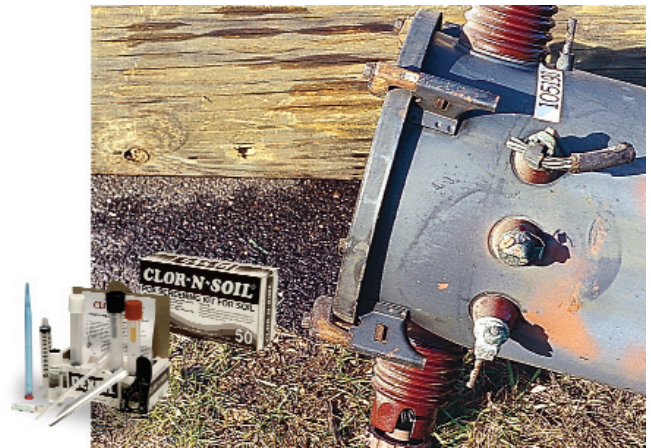
Video Available

Clor-N-Soil®

PCB Screening Kit For Soil

Soil analysis is not only expensive, but time consuming. PCB concentration, extent and location of site contamination are all critical when determining further action. Clor-N-Soil PCB field screening kits can help you make those decisions on-site in a matter of minutes.

Clor-N-Soil is a self contained test kit that allows field personnel to perform the test in less than 10 minutes without additional equipment or supplies. All premeasured reagents are sealed in glass ampoules for accurate and consistent results. The kit can be used to test any type of soil including sand, topsoil, sediment, and clay at a fraction of the cost of traditional laboratory testing.



Analytes	PCBs
Matrix	Soil
Detection Method	Fixed endpoint colorimetric titration
Action Levels	50 ppm
Analysis Time	10 minutes

	Catalog #
Clor-N-Soil	CS-OIL
(Patented)	

Packaged 12 kits to a shelf pack, 48 kits per case.
 Minimum order is 6 kits.
 Orders greater than 6 kits must be in multiples of 12.

Video Available

L2000[®]DX PCB/Chloride ANALYZER

Quantitative Test for PCB/Chlorinated Organics In:



Dielectric Fluid • Soil • Water • Surface Wipes

L2000DX PCB/Chloride ANALYZER

USEPA SW-846 Method 9078 For Soil

The L2000DX relies on the same basic chemistry as the Clor-N-Oil test kits, however instead of a colorimetric reaction, the L2000DX uses an ion specific electrode to quantify the contamination in the sample. Sample analysis is available for transformer oils, soils and surface wipes. The usable measurement range for oils and soils is 3 to 2000 ppm, 20 ppb to 2000 ppm for water and 3 to 2000 $\mu\text{g}/100 \text{ cm}^2$ for wipe samples.

The large LCD (2 lines x 16 characters) back-lit display is easy to read in all lighting situations. Pertinent information regarding the program in use, blank subtraction values, reporting units, and concentration values are clearly visible on the display. The L2000DX Analyzer is preprogrammed with conversion factors for all major Aroclors and most chlorinated pesticides and solvents. The built-in methods include corrections for extraction efficiencies, dilution factors and blank contributions.

Precanned programs are easily selected from a menu to perform routine analysis of common chlorinated organic compounds. For less common analytes or for custom measurement protocols, user defined methods can be easily built and stored using the method development menus. Analysis results can be printed immediately to the on-board 40 column thermal printer, or they can be stored for later print out using the parallel port or by uploading to a PC via the RS-232 serial port. The analyzer itself utilizes rechargeable batteries which allow fully mobile operation in remote locations without access to power.

L2000®DX PCB/Chloride Analyzer System

L2000DX Analyzer



The L2000DX PCB/Chloride Analyzer is a field portable instrument incorporating an ion specific electrode that can quantify chlorinated compounds in four matrixes. Powered by a rechargeable 8-volt battery or 120 volt AC power, the L2000DX can quantify chlorinated compounds from 3 ppm to 2000 ppm. Programmed into the instrument for a variety of compounds, are extraction efficiencies, conversion factors and other variables for accurate and reliable analysis. For unique compounds, the user can design and program their own methods into the instrument.

Analytes Matrix	PCBs, Chlorinated Organics Water, Transformer Oil, Surface Wipes, Soil
Detection Method	Electrochemical
Action Level	Oil: 3-2000 ppm Soil: 3-2000 ppm Water: 20 ppb-2000 ppm Wipe: 3-2000 ug/100 cm²
Analysis Time	Oil - 5 min, Soil, Wipes and Water 10 min.

L2000DX PCB/Chloride Analyzer System
(Choose the following option)

When ordering specify:

- Option 1 - 40 Oil Reagents
- Option 2 - 20 Soil Reagents
- Option 3 - 20 Water Reagents
- Option 4 - 20 Wipe Reagents

Catalog #
LP-200

LP-200-01
LP-200-02
LP-200-03
LP-200-04

L2000DX Reagents For Dielectric Fluid

The L2000DX PCB/Chloride Analyzer is field portable, designed to screen dielectric fluid for PCBs, on-site, at a much lower cost than laboratory methods. Total testing time is less than 5 minutes per test. The L2000DX can quantify PCB in dielectric fluid from 3 ppm to 2000 ppm. The L2000DX PCB/Chloride Analyzer can reduce the number of laboratory samples by as much as 80%.



Analytes Matrix	PCBs Transformer Oil
Detection Method	Electrochemical
Action Levels	3 ppm - 2000 ppm
MDL	3 ppm
MQL	9 ppm
Interferences	Non-Analyte Chlorine
Overall Accuracy	10% +/- MDL
Analysis Time	5 minutes

L2000DX Oil Reagents
40-Oil Reagents
200-Oil Reagents

Catalog #
LP-ORK-40
LP-ORK-BP

L2000DX Reagents For PCB Wipes

Dexsil has developed a method for analysing wipe samples using the L2000DX Analyzer. The analysis of PCBs on surfaces can now be achieved on-site in less than 10 minutes per sample. Sampling kit comes complete with:

- PCB Rated Gloves
- Safety Goggles
- Disposable Forceps
- Gauze Pads
- Sample Vials
- Chromatographic Hexane
(Sealed in Glass Ampules)
- All The Necessary L2000DX Reagents



Analytes Matrix	PCBs Surface Wipes
Detection Method	Electrochemical
Action Levels	3 ug /100cm² - 2,000ug /100cm²
Analysis Time	10 minutes

L2000DX Wipe Reagents
20-Surface Wipe Reagents

Catalog #
LP-WIP-20

L2000®DX Reagents for Soil

USEPA SW-846 Method 9078 For Soil



Soils contaminated with chlorinated compounds such as PCBs, chlorinated solvents and pesticides/herbicides, require accurate analysis for investigators to make confident decisions as to the extent of the contamination and its clean-up. Laboratory methods are both time consuming and expensive. Using off-site laboratories requires retrieving samples in the field, transporting the samples, and then waiting days or weeks for the results. The L2000DX Analyzer, with on-site capabilities, can alleviate these problems.

L2000DX Two Step Extraction Method for SOIL

Recommended for hard to extract wet clays.

Soils, such as wet clays, pose an extraction problem with most extraction solvents on the market today. If the extraction solvent cannot solvate the soil and remove the contaminant efficiently, an underestimation of the contaminant will occur. Dexsil has developed a "Two Step Extraction Method" that allows difficult soils to be solvated efficiently for accurate and reliable results.

Analytes	PCBs, Chlorinated Organics
Matrix	Soil
Detection Method	Electrochemical
Action Levels	3 ppm - 2000 ppm
MDL	3 ppm
MQL	9 ppm
Interferences	Non-Analyte Organic Chlorine
Overall Accuracy	10% +/- MDL
Analysis Time	10 minutes

L2000DX Soil Reagents	Catalog #
20 Soil Reagents	LP-SRK-20
200 Soil Reagents	LP-SRK-BP

L2000DX Two Step Extraction	Catalog #
20 Pack	LP-SR2-20
200 Pack	LP-SR2-BP

L2000®DX Reagents for Water

The L2000DX PCB/Chloride Analyzer is an efficient, accurate tool for determining chlorinated organic compound contamination in groundwater. The L2000DX is user friendly with a variety of preprogrammed methods specifically designed for water testing. Extraction efficiencies and conversion factors for over a dozen chlorinated compounds have been determined and programmed into the instrument for accurate in-field results. In addition to the preprogrammed methods, customized methods can be designed by the user incorporating characteristics specific to site location and analyte.



Field trial and laboratory validation studies show that the L2000DX's water analysis compares very well with expensive laboratory methods. This data shows that the L2000DX can accurately determine the true contaminant concentration in two ranges. The instrument has a low range of 20 ppb* to 5 ppm and a high range of 5 ppm to 2000 ppm. Inorganic chloride does not interfere with the test.

MDL and MQL is analyte dependent.

Analytes	PCB's, Chlorinated Organics	
Matrix	Water	
Detection Method	Electrochemical	
	<u>High Range</u>	<u>Low Range</u>
Action Levels	3 - 2,000 ppm	20 ppb - 2000 ppm
MDL*	3 ppm	20 ppb
MQL*	9 ppm	60 ppb
Interferences	Non-Analyte Organic Chlorine	
Overall Accuracy	10% +/- MDL	
Analysis Time	10 minutes	

L2000DX Water Reagents	Catalog #
20 Water Reagents	LP-WRK-20
200 Water Reagents	LP-WRK-BP

PCB Accessories

Wipe Sampling Kit

Dexsil's Wipe Sampling Kit contains everything to collect an accurate surface sample for laboratory analysis. Disposable wipe templates measuring 100 cm² are supplied in square, rectangular, and round configurations for various surfaces.

Disposable forceps, gauze wipe pads, storage vials, and individually sealed ampules of chromatographic grade hexane are provided for each test. The kit also comes with PCB resistant gloves, safety goggles, and a postage paid mailer for use if you choose to send the samples to the Dexsil laboratory.



Wipe Sampling Kit (Contains 8 complete wipes.)

Catalog #
WT-KIT

L2000 Accessories

Individual L2000 components can be ordered separately.



Chloride Ion Specific Electrode
Portable Electronic Balance
0-150 grams

5 ml Pipettor

Catalog #
PC-B10-14

LP-BAL-00

PC-5ML-PP

Sampling And Shipping Items That Take The Hassle Out Of PCB Testing

Cross-contamination, leaky vials, difficult to reach oil, and dangerous reagents can all lead to problems when sampling for PCBs. The products from Dexsil listed below can help you avoid these pitfalls.

Bellows Type Sampling Pipettes

Dexsil offers two types of disposable sampling pipettes for retrieving oil from transformers. One uses a 1/4" diameter stiff tubing and is used primarily when accessing transformers from the top. The other type, with 5/32" diameter flexible tubing, is made specifically for accessing oil through a pressure relief valve or through a resealable punched hole in the side of the transformer. Both pipettes come in standard 12" (30 cm) lengths and are available in longer custom lengths for specific applications.



Stiff Tubing Bellows Pipette (one ft length only)
Flexible Tubing Bellows Pipette

Catalog #
BP-STF-01
BP-FLX-01

Vials, Labels & Shipping Containers

Dexsil offers PCB-free 20 ml glass vials for storing and shipping oil samples. Pressure sensitive labels for marking PCB, PCB contaminated, and non-PCB equipment are also available. For customers using the Dexsil laboratory, shipping vials and postage-paid mailers are supplied at no charge.



40-PCB Sample Vials
100-PCB Sample Vials
Non-PCB Labels < 50 ppm
PCB Contaminated Labels, 50-500 ppm
PCB Labels > 500 ppm
Postage Paid Shipper with 8 Vials

Catalog #
MS-VIA-LS
MS-VIA-BX
MS-PCB-00
MS-PCB-01
MS-PCB-02
GC-SVM-01

On-Site Test Kits for Used Oil

Compliance with 40 CFR:



Total Chlorine • Water in Used Oil • Organic Chlorine in Wastewater

QUANTIFICATION OF TOTAL HALOGENS IN USED OIL

Federal regulation, 40 CFR 266.40 and 279.44, requires that used oil to be burned for energy recovery in any boiler or industrial furnace must contain less than 1000 ppm total halogens (4000 ppm is the permissible limit if it can be shown that the halogens are not from a listed hazardous waste). The difference in disposal costs between a non-hazardous used oil that can be burned for energy recovery and a hazardous waste that must be incinerated is huge, so testing is a necessity. The Clor-D-Tect test kits offer two quick, accurate ways to assure that your oil will not be classified as hazardous waste if it is not. The kits detect all sources of chlorine that may be in used oil whether they are volatile, non-volatile, organic or inorganic. The Clor-D-Tect kits have been assigned an USEPA SW-846 Method Number 9077 as well as an ASTM Method Number D- 5384 so test results are widely accepted by regulatory authorities.

The Clor-D-Tect 1000 is a semi-quantitative test that reveals if a sample contains more or less than 1000 ppm chlorine. The Clor-D-Tect Q4000 provides a quantitative result over the range of 200 ppm to 4000 ppm. Titra-Clor C and Titra- Clor P provide an easy way for those working in a laboratory to perform high precision, low detection limit work on used oil samples. Samples containing as little as 50 ppm chlorine can be analyzed in less than ten minutes.

QUANTIFICATION OF ORGANIC CHLORINE IN WASTEWATER

If your waste sample is not oil but mostly water, such as antifreeze, wastewater, or oil/water mixtures, then the Clor-D-Tect test kits cannot be used. HydroClor-Q is designed specifically for samples of this nature. It measures only organic chlorine over the range of 200 to 4000 ppm, and is not sensitive to inorganic chlorine such as sodium chloride. In other words, it will detect the presence of chlorinated solvents but will not be affected by saltwater.

QUANTIFICATION OF WATER IN USED OIL

Water can be an expensive contaminate in used oil. HydroSCOUT is a unique on-site test to quantify water in used oil either at the job-site or in a laboratory setting. This method will allow you to determine the true value of the used oil before the oil is accepted for transportation to your facility. The HydroSCOUT system can replace current time-consuming laboratory methods and reduce costs associated with solvent disposal.

On-Site Testing for Total Chlorine in Used Oil

CLOR-D-TECT® 1000 On-Site Screening Of Used Oil



ASTM Method D-5384
USEPA SW-846 Method 9077

CLOR-D-TECT 1000 under **USEPA SW-846 Method 9077**, provides a "go, no-go" result at a level of 1000 ppm chlorine. Used oil transporters, generators and facilities that recycle or re-refine used oil can incorporate Clor-D-Tect 1000 into their management of waste oil to prevent costly hazardous waste from being mixed with non-contaminated oil. Generators can identify and label their waste oil hazardous or non-hazardous, for proper management and disposal. Designed for use on-site, the test takes less than 5 minutes to run with no special training. Each kit comes complete to perform one test, and all pre-measured reagents are sealed in glass ampoules. Clor-D-Tect 1000 has proven to be an ideal test to spot-check oil before it is transported, accepted or introduced into larger holding tanks. Clor-D-Tect 1000 has been assigned ASTM Method D-5384 and USEPA SW-846 Method 9077.

Analytes	Chlorine/Chlorinated Organics
Matrix	Used Oil, Solvents, Organic Liquids
Detection Method	Fixed endpoint colorimetric titration
Action Levels	Above or below the 1000 ppm regulatory limit
Interferences	Sulfur may cause false positive results
Analysis Time	Less than 5 minutes

Clor-D-Tect 1000
(Patented)
Packaged 20 kits to a shelf pack, 80 kits per case.
Minimum order is 10 kits.
Orders greater than 10 kits must be in multiples of 20.

Video Available

Catalog #
CD-DET

CLOR-D-TECT® Q4000 Quantitative Chlorine Screening Of Used Oil



ASTM Method D-5384
USEPA SW-846 Method 9077

CLOR-D-TECT Q4000 under **USEPA SW-846 Method 9077** quantifies the chlorine level of used oil between 200 - 4000 ppm. The kit has been proven invaluable when different oil lots are blended or when the user must know how close a quantity of waste oil is to the 1000 ppm or 4000 ppm action level. Clor-D-Tect Q4000 is a proven test to measure chlorine in crankcase, hydraulic, diesel and lubricating oils and virtually any hydrocarbon based solvent. The pocket-sized Clor-D-Tect Q4000 kit has all its premeasured reagents sealed in glass ampoules for safe, consistent, and accurate results. The test is quick and easy to run, with results obtained in the field in less than 5 minutes with no special training. Clor-D-Tect Q4000 has been assigned ASTM Method D-5384 and USEPA SW-846 Method 9077.

Analytes	Chlorine/Chlorinated Organics
Matrix	Used Oil, Solvents, Organic Liquids
Detection Method	Quantitative colorimetric titration
Action Levels	200 - 4000 ppm
MDL	200 ppm
MQL	600 ppm
Interferences	Sulfur may cause false positive results
Overall Accuracy	10% +/- MDL
Analysis Time	Less than 5 minutes

Clor-D-Tect Q4000
(Patented)
Packaged 20 kits to a shelf pack, 80 kits per case.
Minimum order is 10 kits.
Orders greater than 10 kits must be in multiples of 20.

Video Available

HydroCLOR[®]Q

Organic Chlorine Determination For Oil/Water Mixtures And Used Antifreeze/Coolant



HydroClor-Q is a quantitative field test kit designed to measure organic chlorine contamination in oil/water mixtures and used antifreeze. The kit can be used on water-soluble cutting fluids, sump and bilge water, antifreeze or any fluid that contains greater than 70% water. HydroClor-Q only measures "organic" chlorine, therefore inorganic chloride from seawater or other sources will not interfere with the test. The pocket-sized kit is easy to use and comes complete with everything necessary to perform one test. All premeasured reagents are sealed in glass ampules. The test takes less than 10 minutes to run and quantifies total organic chlorine in the range of 200 ppm to 4000 ppm. This kit is extremely useful for identifying chlorinated solvent contamination in water and wastewater.

Analytes	Chlorinated Organics
Matrix	Water/Oil Mix, Antifreeze
Detection Method	Quantitative colorimetric titration
Action Levels	200 - 4000 ppm
Analysis Time	Less than 10 minutes

Hydro-CLOR Q
(Patented)

Packaged 12 kits to a shelf pack, 48 kits per case.
Minimum order is 12 kits.
All orders must be in multiples of 12.

Catalog #
HY-DRO

HydroSCOUT[®]

Quantification Of Water In Used Oil



USEPA SW-846 Draft Method 9001

HydroSCOUT is a field portable test that quantifies water concentration in a variety of matrixes, (oil, paint, solvents, liquid waste, soil, inks, etc.). It is an easy, inexpensive test that can be run in the field at the pick-up point or in a laboratory setting with minimal training. This method is ideal for accurately determining the true water content in used oil before acceptance or treatment. **HydroSCOUT has been assigned USEPA SW-846 Draft Method 9001.**

HydroSCOUT METER

The palm sized HydroSCOUT meter is programmed to determine water content in used oil over two common ranges. "Program A" covering the range 0 - 20 % can determine water content down to 0.15% (1500 ppm), v/v. Using the available dilution vials, "Program B" can measure water content up to 100%. Results are displayed in volume percent on a LCD. The meter is menu driven for ease of use. Both programs auto-calibrate and perform quality control checks to minimize false negatives and ensure accuracy.

Analytes Matrix	Water Used Oil, Solvents, Organic Liquids, Lubricating Oils, Industrial Oils, Gasoline
Detection Method	Quantitative Calcium Hydride reaction
Interferences	Ethylene Glycol / Acids
Analysis Time	3 minutes
Action Levels	Program A MDL 0.15% - 20% Program B MDL 5% - 100%

HydroSCOUT Meter/Carrying Case
(with 40 tests and 12 dilution vials)
H.S. % Range Reagents 40 tests
H.S. % Range Reagents 160 tests (1 case)
H.S. 12 Dilution Vials

Catalog #
HS-MTR-O1
HS-ORP-40
HS-ORP-CS
HS-DVP-12

Clor-D-Tect® Q4000 High Range



Field Test Kit for Quantifying Percent Levels of Chlorine In Used Oil

Clor-D-Tect Q4000 High Range is designed to quantify high levels of chlorine in used oil in the range of 0-10% (100,000 ppm).

The Clor-D-Tect High Range can be used either on-site or in a laboratory setting to quickly determine chlorine levels before acceptance or incineration of waste occurs. This inexpensive, precise test kit, can replace time consuming and expensive bomb oxidation/ion chromatography and microcoulometric methods.

Performing each test requires a Clor-D-Tect Q4000 kit and a high range dilution reagent purchased separately. The user draws an oil sample using the sampling syringe provided, dispenses it into the dilution vial and mixes well. A sample is then drawn from the dilution vial, added to the Q4000 reaction tube, and the test is run according to the instructions. The result obtained with the Q4000 test must be divided by 400 in order to convert to the percent chlorine in the sample.

Analytes	Chlorine/Chlorinated Organics
Matrix	Used Oil, Solvents, Organic Liquids
Detection Method	Quantitative Colorimetric Titration
Action Levels	0 - 100,000 ppm (10%)
MDL	5,000 ppm (.50%)
MQL	15,000 ppm (1.50%)
Overall Accuracy	10% +/- MDL
Analysis Time	Less than 10 minutes

Clor-D-Tect Q4000 Kit
 Q4000HR Dilution Vials
 Clor-D-Tect Q4000: packaged 20 kits to a shelf pack, 80 kits per case. Minimum order is 10 kits.
 Orders greater than 10 kits must be in multiples of 20.
 Q4000HR Dilution Vials: 10 dilution Vials per Pack

Catalog #
 Q4000
 Q4-DVP-10

Titra-Clor® C • Titra-Clor® P



Quantitative Chlorine Test For Used Oil In The Laboratory

If you have a laboratory available and want to obtain optimal precision in your chlorine testing, then the Titra-Clor laboratory kits may be the preferred method. The Titra-Clor kits use chemistry similar to Clor-D-Tect, but because the sample is weighed out on an analytical balance and titrated using a full scale laboratory buret, greater precision and a lower limit of detection are obtainable. Two different Titra-Clor kits are available; Titra-Clor C uses a colorimetric end point while Titra-Clor P uses a potentiometric one.

Titra-Clor covers the range of 50 ppm to 6000 ppm chloride with a precision of +/- 5%. Titra-Clor P is best utilized when an automatic titrator is available to determine the end point. Titra-Clor C can be used with simply a buret, beaker, and magnetic stirrer. This method has been proven to provide quick, accurate testing of oil samples when looking for chlorinated solvents, chlorinated pesticides or other chlorinated compounds.

Analytes	Chlorine/Chlorinated Organics
Matrix	Used Oil, Solvents, Organic Liquids
Action Levels	50 - 6000 ppm chloride with a precision of +/- 5%
MDL	50 ppm
MQL	150 ppm
Interferences	Sulfur
Overall Accuracy	10% +/- MDL
Analysis Time	5 minutes

Titra-Clor-P
 Titra-Clor-C
 Packaged 10 tests per box.

Catalog #
 TI-TRA-CP
 TI-TRA-CC

On-Site Test Kits for Soil



Total Petroleum Hydrocarbons • Total Moisture

TPH In Soil

Relying on laboratory methods to determine hydrocarbon contamination in soil is both time consuming and expensive. Laboratory methods such as EPA Method 8015 are very expensive with turn-around times of one to two weeks. Most samples analyzed by this method limit the results to Gasoline Range Organics (GRO) or Diesel Range Organics (DRO). When limiting the analysis to these two ranges, heavier fractions of hydrocarbons such as fuel oil, motor oil, hydraulic oil, gear oil, transformer oil and greases are "not seen" in the analysis and the soil samples may be incorrectly reported as clean (false negative) if these heavier hydrocarbons are present. Method 418.1 was the only broad spectrum "Total Petroleum Hydrocarbon" field test for soil. Although this test is quite accurate for dry soils, the extraction efficiencies for wet soil can be as low as 10%. This inability to solvate wet soil samples can lead to false negative results. Method 418.1 also uses a chlorinated solvent (Freon) as its extraction solvent. Freon is environmentally unsafe, and its disposal costs are quite high. The analyst now has another choice, an environmentally safe, inexpensive, field portable test, PetroFLAG.

Moisture in Soil

Nationwide, the increasing importance of water conservation cannot be ignored. The currently available methods used for monitoring soil moisture levels to ensure the efficient use of irrigation water in production agriculture fail to provide data that is precise or specific enough to adequately accomplish the task. Single location moisture sensors, moisture tension devices and weather data do not measure water content directly and fail to account for changes in soil types, topography and slope exposure and the effect each has on a soil's water supplying characteristics. A method of monitoring soil moisture that is accurate, practical and portable would contribute greatly to water conservation measures.

PetroFLAG® SYSTEM

An On-site Test for TPH in Soil



USEPA SW-846 Draft Method 9074

The PetroFLAG system is a field portable method for the determination of total petroleum hydrocarbons in soil. It is both safe and easy to use. PetroFLAG does not distinguish between aromatic and aliphatic hydrocarbons, but quantifies all fuels, oils, and greases as total hydrocarbons. Analysis of a 10 gram soil sample is performed using three simple steps: extraction, filtration, and analysis.

The PetroFLAG instrument is easily and quickly calibrated using an extract reagent as the zero and a supplied 1000 ppm hydrocarbon standard. The menu driven display prompts the user through the calibration steps. One set of calibration standards accompanies each box of ten tests. Additional calibration standards can be ordered separately.

The PetroFLAG system is not analyte specific, but measures all hydrocarbons in the sample as the target analyte chosen by the user. Programmed into the instrument are 15 response factors for petroleum hydrocarbons. Five response factors, 11 through 15, are specifically designated for crude oil analysis. By choosing the correct response factor for the target analyte, the calibration curve is adjusted for that specific analyte making for a more precise measurement.

The PetroFLAG system is completely field portable. Everything needed to perform ten soil tests can be conveniently carried to the job site in a briefcase size carrying case. PetroFLAG has been assigned a USEPA SW-846 Draft Method 9074.

PetroFLAG Analyzer

The PetroFLAG meter is a light-weight, rugged, hand-held unit powered by a 9-volt battery. 4,000 tests can be run on a single alkaline battery. The meter is menu driven for ease of use and utilizes an EEPROM memory system. Fifteen response factors are built into the analyzer depending on the analyte of interest. Response factors correlate to fuels ranging from weathered gasoline to heavy crude oil. The results are displayed in ppm on a LCD. The lower limit of detection for most hydrocarbons is 20 ppm, except for weathered gasoline which has a LLD of 1000 ppm. Using the standard 10 gram sample, the analyzer has the ability to quantify all hydrocarbons up to 2000 ppm. Quantifying hydrocarbons above 2000 ppm requires an additional step using PetroFLAG's High Range Reagents;

or the analyst can reduce the sample size and multiply the results by the appropriate factor.

The PetroFlag Analyzer comes complete with timer, electronic balance, one set of calibration standards, ten tests and carrying case.



Analytes	Petroleum Hydrocarbons
Matrix	Soil
Detection Method	Turbidimetric Development
Action Levels	(MDL) 15 - 2000 ppm (analyte dependent)
MDL	15 ppm
MQL	45 ppm
Interferences	Natural Hydrocarbons
Overall Accuracy	10% +/-MDL
Analysis Time	Throughput 1-10 samples in 15 mins.

PetroFLAG Analyzer/Carrying Case

Catalog#
PF-MTR-01

PetroFLAG® REAGENTS

PetroFLAG for Soil Reagents



PetroFLAG reagents come packaged in ten tests per box. Also included in each box is one set of calibration solutions; a "zero" and 1000 ppm standard. The box is designed to fit directly into a space provided in the field carrying case for convenient replenishment of used reagents. All reagents are premeasured and sealed in glass ampoules for quality control assurance. The PetroFLAG reagents consist of patented formulations that are safe and easily disposed of as normal laboratory waste.

Analytes	Petroleum Hydrocarbons
Matrix	Soil
Detection Method	Turbidimetric Development
Action Levels	(MDL) 15 -2000 ppm (analyte dependent)
MDL	15 ppm
MQL	45 ppm
Interferences	Natural Hydrocarbons
Overall Accuracy	10% +/-MDL
Analysis Time	Throughput 1-10 samples in 15 mins.

PetroFLAG Reagents
10 SOIL TESTS
40 SOIL TESTS (One Case)
 (EACH 10 TESTS COMES WITH ONE SET
 OF CALIBRATION STANDARDS)
12 CALIBRATION REAGENTS
48 CALIBRATION REAGENTS

Catalog #
PF-SRP-10
PF-SRP-CS

PF-CAL-12
PF-CAL-CS

PetroFLAG High Range Reagents

When quantification of hydrocarbons above 2000 ppm is required, PetroFLAG High Range Reagents should be considered. Designed to detect hydrocarbon contamination in the percent range using a one gram or 10 gram sample, the analyst can now extend the range of PetroFLAG to 20% (200,000 ppm). The high range reagents are an extension of the standard PetroFLAG reagents. The new procedure consists of a soil extraction using the High Range Extraction Solvent, then a 10:1 dilution into the standard PetroFLAG solvent, followed by the usual analysis. The linear range for response factor 5 would be 150 ppm to 20,000 ppm using a 10 gram sample and 15,000 ppm to 200,000 ppm for a 1 gram sample. All reagents are chlorine free and can be disposed of in normal laboratory waste.



Analytes	Petroleum Hydrocarbons
Matrix	Soil
Detection Method	Turbidimetric Development
Action Levels	150 ppm to 20,000 ppm
MDL	150 ppm
MQL	450 ppm
Interferences	Natural Hydrocarbons
Overall Accuracy	10% +/-MDL
Analysis Time	Throughput 1-10 samples in 15 mins.

***PetroFLAG High Range Reagents**
10 Tests
 *For use with regular reagents

Catalog #
PF-HRD-10

HydroSCOUT® For Soil

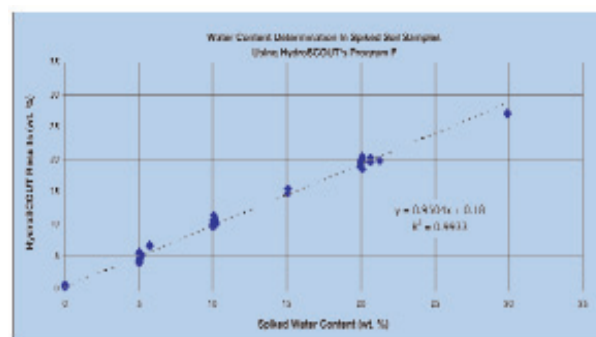
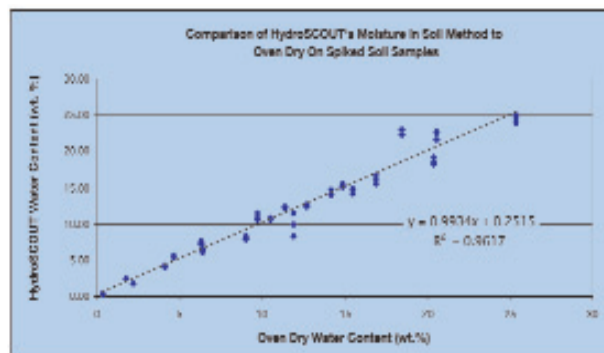
Quantitative Test for Water in Soil

HydroSCOUT is a precise, palm-sized digital analyzer that allows irrigation schedulers, farmers, viticulturists, water conservationists, irrigation districts and state and federal water agencies to analyze soil horizon, or the whole rooting zone specifically for soil moisture content. This information can be then used for efficient irrigation management for any crop based on the crop yield threshold, the soils allowable soil moisture depletion percentage, or a predetermined soil moisture level as in a vineyard deficit irrigation program. The Hydroscout system can also be used for engineering studies for soil compaction and to compensate for the amount of water in analytical samples when the analysis is based on dry weight.

The Hydroscout analyzer system is completely field ready and can accurately quantify water content in all types of soil, from sand to sea sediment, in less than 5 minutes. Results correlate well with the standard oven dry laboratory method without the 48 hour wait. The complete system is packaged in a portable, rugged case the size of a fishing tackle box and includes the Hydroscout analyzer, an analytical balance and enough reagents to complete 40 tests. Whether testing one sample or many samples, no instrument set-up time is necessary. Just extract 1 - 10 grams of soil, add 0.25 mls of extract to the reaction tube and break the ampule containing the premeasured reagent. Wait three minutes, insert the tube into the instrument and press the read button. The moisture content of the soil will be displayed on the LCD screen. IT'S THAT QUICK AND EASY!!



Analytes	Water
Matrix	Soil
Detection Method	Quantitative calcium hydride reaction
Action Levels	0.25% (w/w) - 50% (w/w)
MDL	0.25% (w/w)
MQL	0.75% (w/w)
Analysis Time	Under 10 minutes



HydroSCOUT Soil Meter/Carrying Case (Plus 40 test Reagents)	Catalog # HS-MTR-03
HydroSCOUT Soil Reagents 40 Tests	Catalog # HS-SEV-40

Condition Monitoring of Industrial Oils

On-Site Test Kits for:



Total Water • Total Base Number • Total Acid Number

Preventive maintenance of engines, turbines, pumps and hydraulic equipment is much easier to talk about than to implement. Analysis of lubricating fluids historically involves difficult testing that must be performed in a laboratory at considerable cost. Although engineers and maintenance personnel realize the advantages of good preventive maintenance, testing is often not implemented in the haste of day-to-day operations.

Dexsil's HydroSCOUT, Titra-Lube TBN and Titra-Lube TAN on-site test kits bring lubricant testing out of the laboratory and into the field. The field test kits are faster and less expensive than standard laboratory analysis. HydroSCOUT, Titra-Lube TBN and TAN test kits provide technical or non-technical personnel the ability to achieve accurate, reliable data in a minimal amount of time. Our on-site test kits have eliminated the use of chlorinated solvents and other toxic chemicals associated with current methods. The new formulation eliminates health hazards, as well as costly disposal problems of hazardous waste.

TITRA-LUBE® TBN

Quantitatively Determines Total Base Number In Oil, On-Site



ASTM Method #D-5984-96

Diesel engine oils can be easily tested for Total Base Number (TBN) on-site or in the laboratory by using Titra-Lube TBN. TBN is the measure of reserve alkalinity (base) added to lubricating oils to protect the engine from the corrosive effects of acids formed during the combustion of fuels containing sulfur. Titra-Lube TBN can be used in the field or in a laboratory to accurately determine the oil's TBN level in less than 5 minutes. The test provides a colorimetric determination of TBN between 0 and 20 mg KOH per gram of sample. Oil color does not interfere with test results because the colorimetric determination is carried out in the aqueous phase. All premeasured reagents are non-hazardous, sealed in glass ampules and contain no F series solvents. Each kit contains everything needed to do the analysis.

Analytes	Total Base Number
Matrix	Lubricating Oils, Industrial Oils
Detection Method	Quantitative colorimetric titration
Action Levels	0- 20 TBN Units (mg KOH/gm sample)
MDL	0.6 TBN Units
MQL	1.8 TBN Units
Overall Accuracy	10% +/- MDL
Analysis Time	5 minutes

Titra-Lube TBN
(Patent Pending)
Packaged 20 kits to a shelf pack,
80 kits per case. Minimum order is 20 kits.
All orders must be in multiples of 20 kits.

Catalog #
TI-LUB

Titra-Lube TBN vs. ASTM D-2896 and D-4739

Sample	OIL TYPE	D-4739	D-2896	Titra-LubeTBN
A	NEW	1.31	0.90	0.85
B	NEW	7.05	7.87	7.53
C	NEW	12.45	14.78	13.62
D	NEW	11.2	12.44	11.58
E	USED	3.79	8.79	5.42
F	USED	9.61	13.55	11.36
G	USED	4.64	6.37	5.26
H	USED	13.05	16.76	15.5
I	USED	4.21	8.22	6.0
J	USED	4.03	8.48	5.7
K	USED	2.54	6.87	4.9
L	USED	2.54	6.89	4.3
M	USED	5.56	6.89	4.3
N	USED	7.25	11.12	9.5
O	USED	6.89	10.70	8.5

Table 2
Comparison of ASTM method C2896 and Titra-Lube on new lubricating oil samples.

Sample ID.	ASTM Method C2896	Titra-Lube TBN
Amalie	12.09	12.6
Quaker State (SAE 30W)	8.72	8.7
Quaker State HD (20W-20)	8.08	8.2
Castrol GTX(10W-40)	7.84	7.2
Castrol Motorcycle	6.43	5.8
Kendall Super D III	10.96	10.4
Penzoil Multi High Viscosity	9.08	8.8
Amoco LDO All Seasons (20W-50)	8.95	8.5
Mobil 1 (15W-50)	7.05	7.4

Table 2
Comparison of ASTM method D2896 and Titra-Lube TBN used diesel lubricating oil samples.

Sample ID.	ASTM Method C2896	Titra-Lube TBN
MO-1	8.17	1.2
DDO-1	6.93	6.6
TMO-LC1	6.48	6.2
JTF-KSDIII-1	7.24	6.5
EBU-1	5.45	5.9
CP-EE1	9.29	9.0
CDT-4309	8.37	7.5
CDT-9250	16.10	16.4
8RB357-250	13.40	12.8

- All reagents are premeasured and sealed in glass ampules
- Results are consistent and accurate
- All reagents are safe, no chlorinated solvents or chlorobenzenes
- Easy disposal in normal laboratory waste
- Results in less than 5 minutes
- Range: 0-20 TBN (mgKOH/gram of sample)
- Method Detection Limit (MDL): 0.6 mg KOH/gram of sample
- Minimum Quantitative Level (MQL): 1.8 mg KOH/gram of sample
- Test works equally well on new oils and dirty contaminated oils
- More efficient and economical than preparing standard laboratory reagents

TITRA-LUBE® TAN

Quantitatively Determines Total Acid Number In Lubricating Oil And Other Hydrocarbon Based Fluids



Oxidation of oils, such as lubricating, hydraulic, pump and other oils, is one main cause of mechanical malfunction. These oils can be analyzed for total acid number quickly and easily by incorporating Titra-Lube TAN test kits in your preventive maintenance schedule. Accurate monitoring of fluids for increased acid number can reduce costly repair or replacement of equipment.

Designed to be used by non-technical personnel, the kit can accurately detect acid build-up in less than 5 minutes at the job site. Titra-Lube TAN closely matches results obtained by more costly laboratory methods such as ASTM Method D-664.

Titra-Lube TAN contains no F series solvents. All premeasured reagents are non-hazardous and sealed in glass ampoules for consistent, accurate results. Oil color will not interfere with the test because the colorimetric endpoint is carried out in the aqueous phase. The test covers the range of 0 - 2 TAN units (mg KOH/gram of sample) and comes complete with everything necessary to perform one test.

Analytes	Total Acid Number
Matrix	Lubricating Oils, Industrial Oils, BioDiesel
Detection Method	Quantitative Colorimetric Titration
Action Levels	0-2 TAN Units (mg KOH/gm sample)
MDL	0.18 TAN Units
MQL	0.50 TAN Units
Overall Accuracy	10% +/- MDL
Analysis Time	5 minutes

Titra-Lube TAN
(Patent Pending)
Packaged 20 kits to a shelf pack,
80 kits per case. Minimum order is 20 kits.
All orders must be in multiples of 20 kits.

Catalog #
TI-TAN

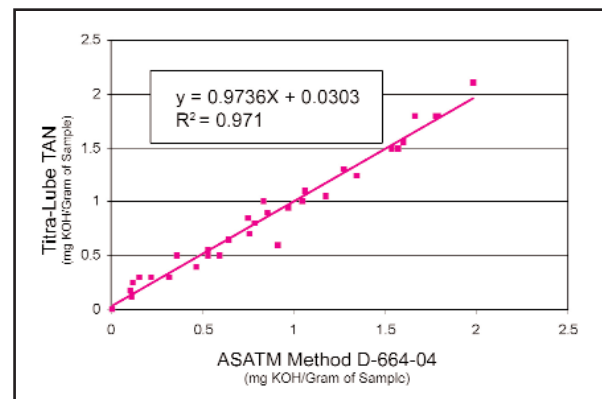
Titra-Lube TAN vs. ASTM Method D-664

The following chart illustrates a direct comparison between results obtained with the Titra-Lube TAN Kit and those obtained by laboratory method ASTM D-664. Each result is the average of three tests. Range for the Titra-Lube TAN Kit as configured is 0 to 2 mg KOH/gsample.

Sample	Method D-664	Titra-Lube TAN
Cutting Oil 1	.367	.325
Cutting Oil 2	.129	.150
Cutting Oil 3	.084	.100
Cutting Oil 4	1.204	1.150
Honing Oil 1	.626	.550
Extreme Pres. Compound	1.640	1.500
Oxidized Oil	.236	.200
Crankcase Oil	.185	.150
Hydraulic Fluid 1	.208	.200

(TAN Average of 3 Runs Each)

Titra-Lube TAN vs. ASTM Method D-664-04



The results for the Titra-Lube TAN were found to be statistically indistinguishable from the D-664 results with a correlation coefficient (R^2) of 0.97. As shown in the above graph, the slope of the regression line was 0.97 and not statistically different from 1 and the intercept (0.03) was not statistically different from 0, indicating that the kit method is accurate and shows no systematic bias relative to the lab method.

HydroSCOUT® PPM RANGE

HydroSCOUT is an on-site test that quantifies water in industrial oils quickly and easily. The HydroSCOUT method incorporates the standard reaction of water with calcium hydride to produce one mole of hydrogen for every mole of water. By inserting the reaction tube into the hand-held meter, the instrument converts the pressure of the hydrogen into the amount of water in the sample. The results are reported in ug/mL. To convert to parts per million, simply divide your results by the specific gravity of the oil sample.



HydroSCOUT Meter

The meter is menu driven for ease of use. All programs are auto-calibrated and perform quality control checks to minimize false negatives and ensure accuracy.

Analytes	Water
Matrix	Lubricating Oils, Industrial Oils, BioDiesel
Detection Method	Quantitative Calcium Hydride reaction
Action Levels	50 - 10,000 ug/mL
MDL	50 ug/mL
MQL	150 ug/mL
Interferences	Ethylene Glycol / Acids
Overall Accuracy	10% +/- MDL
Analysis Time	Less than 10 minutes

HydroSCOUT PPM Meter with Carrying Case (with 40 Tests Reagents) Catalog # HS-MTR-02

HydroSCOUT Reagents PPM Range

All reagents are premeasured and sealed in glass ampules for safe, accurate and consistent results. Analysis time is less than 10 minutes utilizing a sampling syringe, one test tube and one breakable ampule. Each test comes with a disposal ampule that allows easy disposal of used tests in normal waste. This environmentally safe test kit comes packaged with 40 tests per box.

- For low levels of water (ppm range): Programs C, D, E
- Sample Size: 5 mL
- Measurement Range: 50 ug/mL to 10,000 ug/mL
- MDL: 50 ppm
- MQL: 150 ppm
- Sample Matrix: Lube Oils, Hydraulic Oils, Brake Fluids, Fuels.

NOTE: Phosphate Ester based hydraulic oils, solvents and gasoline should not be run using the 5 mL sample size.



HydroSCOUT PPM Reagents
40 Tests
160 Tests (one case)

Catalog #
HS-LRP-40
HS-LRP-CS

On-Site Test Kits for Alternative Fuels



Total Free Fatty Acids / Total Water in Biodiesel

0 - 90% Ethanol in Gasoline

Alternative fuels are derived from renewable sources such as vegetable and animal oils; ethanol from sugar or cellulose; solar radiation from the sun, and other sources of energy not derived from fossil fuels.

Biodiesel and ethanol are two energy sources that are being introduced into the fuel marketplace worldwide. These new energy sources are added to refined fossil fuels such as diesel fuel, home heating oils and gasoline. To ensure that these blended fuels meet alternative fuel standards set by the industry, analytical testing should be performed before these fuels reach the consumer.

Dexsil has developed on-site test kits to meet some of these needs. HydroSCOUT can quantify total water content in biodiesel from 50 ppm - 10,000 ppm. Titra Lube TAN can measure the free fatty acid content in biodiesel from 0 - 2 mg KOH/Gram of Sample. For gasoline, Quant-N-OL measures the amount of ethanol in gasoline in a range of 0 - 90%. Our on-site test kits are fast and easy to use and eliminate the need for expensive and time-consuming laboratory methods.

HydroSCOUT® PPM Range For Biodiesel

HydroSCOUT is an on-site test that quantifies water in biodiesel quickly and easily. The HydroSCOUT method incorporates the standard reaction of water with calcium hydride to produce one mole of hydrogen for every mole of water. By inserting the reaction tube into the hand-held meter, the instrument converts the pressure of the hydrogen into the amount of water in the sample.

HydroSCOUT® Meter For Biodiesel

The meter is menu driven for ease of use. All programs are auto-calibrated and perform quality control checks to minimize false negatives and ensure accuracy.



Biodiesel PPM Reagents

All reagents are pre-measured and sealed in glass ampules for safe, accurate and consistent results. Analysis time is less than 5 minutes utilizing a sampling syringe, one test tube and one breakable ampule. Each test comes with a disposal ampule that allows easy disposal of used tests in normal waste. This environmentally safe test kit comes packaged with 40 tests per box.



Analytes	Water
Matrix	Biodiesel
Detection Method	Quantitative Calcium Hydride Reaction
Action Levels	50 - 10,000 ug/mL
MDL	50 ug/mL
MQL	150 ug/mL
Interferences	Ethylene Glycol / Acids
Overall Accuracy	10% +/- MDL
Analysis Time	Less than 10 minutes

HydroSCOUT PPM Meter with Carrying Case (with 40 Tests Reagents)	Catalog # HS-MTR-02
HydroSCOUT PPM Reagents 40 Tests 160 Tests (one case)	HS-LRP-40 HS-LRP-CS

TITRA-LUBE® TAN Test For Acid Number In Biodiesel



Titra-Lube TAN is designed to determine the amount of free fatty acids in biodiesel. The test covers the range of 0 - 2 TAN units (mg KOH/gram of oil) and comes complete with everything necessary to perform one test. Titra-Lube TAN contains no F series solvents. All premeasured reagents are non-hazardous and sealed in glass ampules for consistent, accurate results. Oil color will not interfere with the test because the colorimetric end point is carried out in the aqueous phase.

Analytes	Total Acid Number
Matrix	Biodiesel
Detection Method	Quantitative Colorimetric Titration
Action Levels	0-2 TAN Units (mg KOH/gm oil)*
MDL	0.18 TAN Units
MQL	0.50 TAN Units
Overall Accuracy	10% +/- MDL
Analysis Time	5 minutes

Titra-Lube TAN (Patent Pending) Packaged 20 kits to a shelf pack, 80 kits per case. Minimum order is 20 kits.	Catalog # TI-TAN
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QUANT-N-OL® Determine Alcohol Content In Gasoline

Quant-N-OL, a test for the quantifying alcohol in gasoline is now available from Dexsil Corporation. A fast, easy to use test allows regulators and gasoline distributors to test for the presence and percentage of alcohol in gasoline, on-site, with safe non-toxic reagents in less than 2 minutes. The range for this field portable test is 0 to 90%.

Analytes	Alcohol, Ethanol
Matrix	Gasoline
Detection Method	Miscibility
Action Levels	0 - 90%
Analysis Time	Less than 2 minutes



Quant-N-OL Packaged 20 Tests to a Box, Minimum order is 20 Tests. All orders must be in multiples of 20 Tests.	Catalog # QU-NOL-SP
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Laboratory Services

Dexsil's full service analytical laboratory provides environmental analysis on a timely basis at reasonable cost. Standard turnaround time for all analyses is five working days, and one day turnaround is available for most analyses. Dexsil's lineup of analytical equipment includes:

- Gas Chromatographs with ECD, FID, PID, HECD, and Mass Spec Detectors.
- Ion Chromatographs
- ICP Spectrophotometers
- HPLC
- Flash Point Apparatus
- Numerous Wet Chemistry Analyzers
- Bomb Colorimeter

PCB, Metals, TCLP and Other Laboratory Services

Dexsil supplies sample vials and postage paid mailers to all customers sending in oil samples and also supplies refrigeration packs, bottles, and postage paid mailers for TCLP samples.

Results for each sample are reported on individual certificates and faxed results are available at no extra charge.

Dexsil supplies clearly organized Chain of Custody forms to all customers who ship samples to Dexsil. These forms help maintain a defensible chain of custody from the time samples are taken until sample results are reported.

If you are in the area, we invite you to see our laboratory in operation. Contact the analytical lab for pricing and additional information.



Used Oil Analysis

<u>Analyte</u>	<u>Method</u>
Total Halogens	EPA 5050/9056
PCBs	EPA 600/4-81-045
Metals (As, Cd, Cr, Pb)	EPA 3040A/6010B
Sulfur	EPA 5050/9056
Water	ASTM D 6304-98
Flash Point	ASTM D 3828A
Specific Gravity	ASTM D 1298
BTU Content	ASTM D 2015
ASH	ASTM D 482-80

PCB Analysis

<u>Matrix</u>	<u>Method</u>
Oil	EPA 600/4-81-045
Soil	EPA 8082
Water	EPA 608
Surface Wipes	EPA 8082

Lubricating Oil Analysis

	<u>Method</u>
Base Number	ASTM D 2896
Acid Number	ASTM D 664
Water	ASTM D 6304-98

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Clor-D-Tect Q4000	Used Oil	Chlorine	8
Clor-D-Tect Q4000 HR	Used Oil	Chlorine, Chlorinated Organics	10
Clor-N-Oil	Dielectric Fluid	PCB	2
Clor-N-Soil	Soil	PCB	2
HydroCLOR Q	Waste Water	Organic Chlorine	9
HydroSCOUT	Used Oil	Water	9
	Lubricating Oil	Water	18
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DEXSIL®

One Hamden Park Drive, Hamden, CT 06517

For General and Technical Information:

Telephone: 203-288-3509 • FAX: 203-248-6523 • E-Mail: info@dexsil.com • Web: www.dexsil.com

To Place an Order:

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24 Hour Emergency Number:

1-800-424-9300 U.S.A. • 1-202-483-7616 (International)

Terms:

Net 30 Days with approved credit

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Orders shipped C.O.D. or prepaid by VISA/MasterCard, Discover Card or Check

Returned Goods subject to a 20% restocking charge

Most orders can ship same day when received by 2:00 pm Eastern Time. All orders are shipped

UPS/FedEX unless otherwise specified. Orders are accepted by mail, telephone, e-mail or fax.

Call 203-288-3509 for details.

TERMS & CONDITIONS

Same Day Shipping

Dexsil Corp. provides same day shipping, within the continental USA, for in-stock items ordered before 2:00 PM ET. This does not apply to items not in stock, back orders, replacement orders, new accounts (first orders) or orders placed on credit hold. We are not responsible for delays due to computer interruptions or Acts of God.

Normal Delivery

Products are shipped within 5 to 10 working days, from the receipt of order, within the continental United States. All items are shipped F.O.B. Dexsil Corp, Hamden, CT. Unless you request a specific carrier or a faster shipping method, we will determine the most rapid and economical method available.

Returns & Replacements

Call us during normal business hours to advise us of your return. Please have your invoice number, order number and order date available when you call. We will provide you with a Return Authorization Number which is necessary for all returns. Include a copy of our packing slip or invoice within your return package along with a letter describing the reason for the return. Mark the outside of the package with the return authorization number. Shipping charges must be prepaid since we cannot handle C.O.D. charges for return packages.

Limitations Upon Guarantee

Notification of returns must be within 15 days of receipt to avoid a 20% restocking fee. This fee is waived if Dexsil shipped defective, damaged or incomplete orders. The item must be in its original manufacturer's packaging. This packaging, including any inner packaging, cannot be defaced or damaged. Dexsil Corp. reserves the right at its discretion to refuse the return or impose a restocking charge for any item that falls outside the limits upon guarantee.

Shortages, Damages and Claims

We take great care in filling, checking and packing your order and make every effort to ensure your full satisfaction. Upon receiving your order, please check all merchandise. If there are any damages or shortages, immediately call our sales department in order to file a claim with the carrier and have us reship the merchandise. To expedite the situation, also directly notify the carrier (UPS or similar carrier) of the situation. Keep damaged goods, containers and packaging in their shipped condition for inspection by the carrier until you are further advised.

If shipped via motor freight carrier, have the delivering carriers agent note the damage on all receipts and freight bills. If you accept a damaged or short shipment from the delivering carrier's agent without their proper notation, you do so at your own risk.

Payment Options

Dexsil Corp. accepts approved net 30 day open account orders as well as payment by VISA, MasterCard, check or C.O.D. All payments are to be paid in US funds and require a \$50 minimum purchase. C.O.D. orders may require bank information.

Opening an Account is Easy

We request that you furnish your Federal ID number, three trade references, and one bank reference including your account number, and the telephone number and contact person (officer) of your bank. If you need immediate delivery before your open account can be established, please utilize one of our other payment options for your order.

Pricing & Quotes

All prices are net in US Dollars and are effective at the time of printing. Although we strive to keep prices effective for the life of the catalog, due to unexpected manufacturer price changes or changes in commodity markets, pricing and quotes are subject to change without notice. Under normal conditions, quotations are valid for 30 days unless otherwise specified or if based on dated sales prices.

Distributor Discount /Volume Discounts

Dexsil Corp. offers discounts to bonafide distributors. In addition, special discounts maybe available on quantities larger than our published price list. Due to unexpected manufacturing changes, changes in commodity markets and promotional pricing changes, discounts may have to be adjusted and are, therefore, subject to change without notice.

Special Orders

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