



TWO NEW PRODUCTS OFFERED FROM MEGATROL

MetalCheck™ - “Another laboratory in a box” that is a simplified version of our larger On-Site Oil Analysis Machine that can be used to check wear metals. MetalCheck™ tells one right away where problems are occurring, often before they become critical. From just a 4-ounce oil sample, MetalCheck™ tells one the concentrations of a full array of important wear metals that are the key indicators of engine, transmission and gearbox health.



MetalCheck™ also provides earliest detection of coolant leaks by measuring the presence of universally used coolant tracer additives. This helps spot blown head gaskets, leaking manifold gaskets, cracked blocks and more.

You don't need a degree in metallurgy to make the most of MetalCheck's™ diagnostic power. The results of each test are evaluated by MetalCheck's™ vast database of make and model information to instantly interpret the results and suggest what needs to be done. These results are displayed in plain language right on the report that is printed on site and posted onto a dedicated web page for tracking trends.

MetalCheck Performance Specifications

Basic Metals	Low Range - ppm		2 σ Accuracy - ppm	
Iron (Fe)	0-1000		The greater of ±8 or 10%	
Chromium (Cr)	0-100		±10	
Lead (Pb)	0-150		±8	
Copper (Cu)	0-500		±10	
Tin (Sn)	3-100		±10	
Aluminum (Al)	0-100		±10	
Molybdenum (Mo)	0-1000		The greater of 10 or 10%	
Silicon (Si)	0-150		±10	
Sodium (Na)	0-1000		The greater of ±12 or 10%	
Potassium (K)	0-100		±12	
Extended Metals	Low Range - ppm	2 σ Accuracy - ppm	High Range - ppm	2 σ Accuracy - ppm
Iron (Fe)	0-1000	Greater of ±8 or 10%	350-3000	±20%
Chromium (Cr)	0-100	±10	NA	NA
Lead (Pb)	0-150	±8	NA	NA
Copper (Cu)	0-500	±10	35-1000	120%
Tin (Sn)	0-100	±10	NA	NA
Aluminum (Al)	0-100	±10	NA	NA
Nickel (Ni)	0-100	±5	NA	NA
Molybdenum (Mo)	0-1000	Greater of ±10 or 10%	NA	NA
Titanium (Ti)	0-100	±8	NA	NA
Manganese (Mg)	0-100	±5	NA	NA
Vanadium (V)	0-100	±7	NA	NA
Silicon (Si)	0-150	±1-	350-1000	±15%
Boron (B)	0-100	±5	350-1000	±15%
Magnesium (Mg)	0-100	±5	350-1000	±20%
Calcium (Ca)	25-150	±25	500-5000	±20%
Barium (Ba)	25-150	±25	350-2000	±20%
Phosphorous (P)	100-600	±40	800-4000	±20%
Sodium (Na)	0-1000	The greater of ±12 or 10%	350-1000	±20%
Potassium (K)	0-100	±12	350-4000	±20%

Notes: 1. High Range accuracy is diminished compared with Low Range because of expanded dynamic range and corresponding lower signal-to-noise ratio.

2. Accuracy values reflect typical conditions of use and anticipate mutual spectral interferences among elements where likely.



FuelCheck™ - Now for a revolutionary product that is first affordable, second fast, third another on-site lab in a box and last requires little or no skill to operate. **FuelCheck™** is instrumentation for measuring cetane number and other important diesel fuel quality parameters. **FuelCheck™** is designed for the service industry:

- ◆ Much lower price than any other.
- ◆ Designed for the rigors of service equipment.
- ◆ Convenient, disposable fuel containers.
- ◆ Simplified operation and output.
- ◆ Addresses need to know diesel properties.

THE NEED....

- ◆ Cetane number strongly affects diesel engine emissions & performance - more is better.
- ◆ USA EPA & engine manufacturers focusing on fuel properties as source of reduced emissions.
- ◆ Cetane number traditionally determined by ASTM D613-86 using an engine costing \$500,000. Reproducibility of this method is 3.0 cetane numbers, so multi-rating is necessary at a cost of \$200-500 at independent labs.
- ◆ Access to fuel parameters is severely limited at a time of increasing interest & importance.

FUELCHECK FEATURES....

- ◆ State of the art Mid-IR Spectroscopic Analysis.
- ◆ Calibrated to measure diesel fuel blends worldwide.
- ◆ Temperature controlled for stable performance.
- ◆ Robust & Reliable.
- ◆ Easily operated with minimum training.
- ◆ Low cost, on the spot results in three minutes.
- ◆ Convenient disposable sample containers with integral filter - automatically emptied after each use.

SPECIFICATIONS....

- ◆ Cetane number - 35-65, ± 2 corresponding to ASTM D613-86
- ◆ Cetane index - 35-65, ± 2 corresponding to ASTM D4737-90
- ◆ Cetane Improver (2EHN) - 0-1000 ppm ± 100 ppm, 1001-5000 ppm $\pm 10\%$.
- ◆ Total aromatics - 0-45 wt%.
- ◆ Polynuclear aromatics (PNA) - 0-15 wt%.
- ◆ Density at 60° F - ± 0.01

MORE INFO....

Contact Megatrol at the number or address below for additional information including pricing and delivery information.

METALCHECK & FUELCHECK are available for sale or lease on favorable terms. Test kits are available to mail in test samples with results e-mailed immediately.

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