

Oil Analysis

Life Blood of your Machines



Using ISO standards for new oil sample we compare your oil to identify what is in alarm

Wear Metals, Contamination, Chemistry are the main components tested

Trends of each oil component can identify which part of the machine is degrading

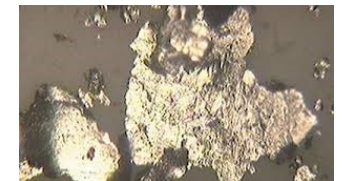
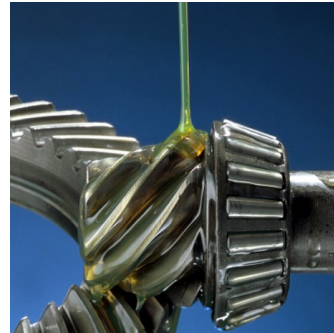
Hydraulics, Transformers, Gearboxes, Mobile Equipment, Fuels, Grease

- Verify new incoming oil is within acceptable limits for your machines
- Save \$\$\$ by filtering the oil to remove particulate/contaminants instead of changing the oil
- Identify which contaminant is present water/coolants/metals/fuels/hydraulics
- Wear Debris Analysis to determine source of metal, non-metals, contaminants
- ISO Alarms based on similar machine types, gearbox manufacturer, oil types
- Compare with vibration, infrared, ultrasound and oil data to determine severity
- Identify the presence of mixed lubricants
- Pressure, filtered or splash lubricated systems
- Let us save you money today!

Sample #	Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)				Additive Metals (ppm)						
	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	65	3

Sample #	Sample Information							Contaminants			Fluid Properties					
	Date Sampled	Date Received	Lube Time	Unit Time	Lube Change	Lube Added	Filter Change	Fuel Dilution	Soot	Water	Viscosity 40°C	Viscosity 100 °C	Acid Number	Base Number	Oxidation	Nitration
1	13-Jul-2017	18-Jul-2017	0	0	Unk	0	Unk	% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm
										<.1 - FTIR	215		0.25		24	3

Sample #	Particle Count (particles/mL)										Additional Testing	
	ISO Code Based On 4/6/14	> 4 µm	> 6 µm	> 10 µm	> 14 µm	> 21 µm	> 38 µm	> 70 µm	> 100 µm	Test Method		
1	25/25/21	289134	194199	40614	10327	1942	113	6	1	ASTM D7647		



Fluid Properties					
Viscosity 40°C	Viscosity 100 °C	Acid Number	Base Number	Oxidation	Nitration
cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm
382		0.01		3	5



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