Mobile Oil Analysis

Predictive Analysis for Fleet & Construction Equipment

WEARCHECK MOBILE OIL ANALYSIS PROVIDES A COMPREHENSIVE VIEW OF THE STATE OF YOUR LUBRICATED EQUIPMENT PROVIDING PEACE-OF-MIND FOR YOUR OPERATION.

OVERVIEW

- Effective maintenance scheduling.
- Reduction in unscheduled downtime.
- Extended equipment life.
- Verification of warranty claims.
- Determination of optimum oil service interval
- Improved equipment reliability.

BENEFITS

Whether you operate over-the-highway trucks, construction equipment or any other type of mobile equipment your fleet represents a large investment, and sometimes the difference between profit and loss depends on keeping operating costs low. Knowledgeable owners understand the benefit of proper maintenance and care of equipment. Through the routine monitoring of the condition of your equipment WearCheck offers you a service to aid your maintenance practices. WearCheck's oil analysis service detects abnormal equipment condition before that equipment runs into costly repairs, with time to schedule corrective action. This reduces the cost of your repairs. Problems are caught early, minimizing unscheduled, costly downtime. WearCheck helps you to extend the life of your valuable investment.

WearCheck's Oil Analysis Program only requires you to take a small sample of the oil from each component being monitored. You are provided with clear and concise directions, forms and sample bottles needed to submit samples to the WearCheck laboratory.

After you have taken the sample you simply fill out an information sheet and submit it with your oil sample to the WearCheck laboratory. Once the sample is received a number of tests are performed to assess the conditions of the component. Once complete you receive a detailed oil sample report with a concise diagnosis and clear recommendations.

WearCheck's Oil Analysis is being effectively used today for a broad range of mechanical equipment, operating in a wide variety of industries including transport, marine, mining, construction, agriculture and the military.

WEAR CHECK

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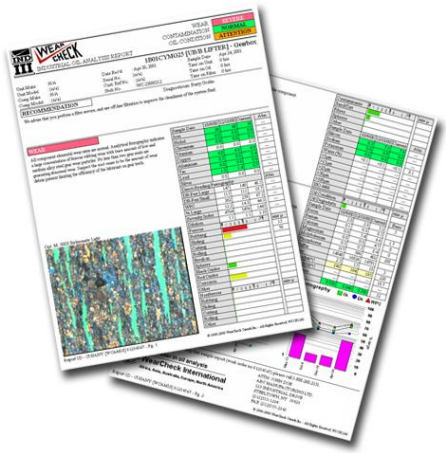
TESTING METHODS

		MOB1	MOB2	MOB3
	**ICP Analysis** ASTM D5185	Determines the parts per million (ppm) of all wear metals (Fe, Cr, Ni, Pb, Cu…), contaminants (Si, Na, K….), and additives (Ca, P, Zn, Mg, Mo…).	●	●	●
	**Viscosity @ 40°C or 100°C** ASTM D445	Determine the viscosity of the oil at 40°C (non-engine), or 100°C (engine) to determine if oil is still within specification. High viscosity can indicate oxidation, low viscosity can indicate contamination, improper make-up oil.	●	●	●
	**Visual Screen** In-house method	A picture of both the oil color/clarity and the bottom of the sample bottle are taken, and any level of contamination, visual oil problems or visible wear debris of the oil is recorded.	●	●	●
	**AN** ASTM D664 **BN** ASTM D2896	Determines overall acidity (AN) or remaining alkilinity (BN) of the oil which is an indication of degradation. Single best test to determine change-out interval. BN test is for engine oil samples, AN for non-engine oil samples.		●[1]	●[1]
	**KF** ASTM D6304	Determines level of moisture or water contamination in the oil.		●[1]	●[1]
	**Particle Count** ISO 4406:1999	Determine cleanliness levels of oil. High particle count levels can indicate gross contaminant ingress, wear, filter by-pass or all of these issues.		●[1]	●[1]
	**PQ Index** In-house method	Provide a rapid indication of metallic debris in an oil sample. Detect ferrous wear debris that may be missed by spectrometric analysis.		●[1]	●[1]
	**Analytical Ferrography**	A detailed morphological analysis of the wear debris particles suspended in the oil. A-Ferr can determine the type of wear process and cause of wear in a lubricated system.			●

1 *– The MOB2 and MOB3 test packages include one of the additional tests listed. Engine testing includes Infra-red analysis, and screening for fuel and glycol.*



WearCheck Mobile Oil Analysis includes everything to set-up a complete oil analysis program. When you purchase a WearCheck Mobile oil analysis program you will receive the necessary sample kits. All WearCheck oil analysis programs include laboratory testing, sample diagnosis and recommendations, sample report, and access to our patented WebCheck™ system to manage your oil analysis program.

WearCheck offers additional programs for industrial equipment, aviation, mining, fuels, coolants and Advanced Oil Monitoring.

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