Oil Analysis Services for Industrial Companies by Immanuel Llorens

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Oil analysis is used to gauge the condition of an engine by examining its oil or lubricant properties. It is also a form of preventive maintenance to keep equipment and machines performing at their best. Most motor vehicles and industrial machines need oil analysis to determine the status of their oil for quality performance, and to save on costly repairs and major accidents and failures.

Oil is the lifeblood of a machine or equipment. It keeps the engine clean and free from dirt. It lubricates the moving parts in the machineâ€™s interior to keep it functioning accordingly. Oil also prevents machines from overheating which is the common cause of machine degradation and damage. Machines used in the automotive, agriculture, construction, manufacture and marine industries are some of the fields that need regular oil analysis.

Oil analysis can be conducted by individuals or specialists. It includes intensive laboratory testing and oil analysis kits. Laboratory testing requires sending oil sample to an oil analysis laboratory for specialists to determine oil contaminants, debris, and solids; and to check properties like base oil, additives and levels of the metals present in the oil. Laboratory testing also determines the oilâ€™s viscosity, thickness and grade.

Oil analysis kits are also available for those who want to do their own oil analysis. You can conduct oil analysis for basic automobiles, gear boxes, transmissions, engines, refrigerator truck, circulation motors and even heavy duty fleets. Kits can range from basic to advanced use. Choose according to your oil analysis requirements.

The standard analysis of oil involves four tests. The spectral exam makes use of a spectrometer to indicate metal levels and additives present in the oil. An insolubles test measures the amount of abrasive solids present in the oil. The viscosity test measures the thickness and grade of the oil. The flash point test measures the temperature at which vapors from the oil ignite.

The kind of analysis oil in machines and equipment need should be ISO 17025 certified. This certification guarantees high quality reports about the condition of your oil. Oil analysis results must be provided immediately. Ideally, this should be given 24 to 48 hours from receipt of the samples. Oil analysis is done in motor vehicles like diesel and gasoline engines, transmissions, gears, differentials and final drives. Industrial equipment like hydraulics, gas and steam turbines, air, gas and refrigerator compressors, natural gas engines; gears and bearings require oil analysis.

Oil analysis is important to keep machines, equipment and motors running in perfect condition. Remember to conduct a regular oil analysis or have an oil analysis lab run one for you. If you would like to read up on oil analysis, visit: blackstone-labs.com/what-is-oil-analysis.php.

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