



Oil Analysis Sampling Practice Recommendations Industrial Plants

Category	Component	Test Kit	Interval	Comments
Turbines	Natural Gas	IND 3	3 mon / 1500 hr	Test kit includes ferrography to monitor for rapid system failures (e.g. rolling element bearings), particle counting to monitor fluid cleanliness, and TAN to monitor fluid degradation.
	Steam	IND 3	3 mon / 1500 hr	"
Blowers	Blower	IND 3	1 mon / 500 hr	"
Hydraulics	Hydraulic System	IND 2	1 mon / 500 hr	Test kit includes particle counting to monitor fluid cleanliness, and TAN to monitor fluid degradation.
	Extruder	IND 2	1 mon / 500 hr	"
	Press	IND 2	1 mon / 500 hr	"
Compressors	Refrigeration Comp.	IND 2	1 mon / 500 hr	Includes Karl Fischer to monitor fluid cleanliness levels, and TAN to monitor fluid degradation.
	Chillers	IND 2	1 mon / 500 hr	Includes Karl Fischer to monitor fluid cleanliness levels, and TAN to monitor fluid degradation.
	Air and Gas Comp.	IND 2	1 mon / 500 hr	Includes Karl Fischer to monitor fluid cleanliness levels, and TAN to monitor fluid degradation.
Gears	Gearbox	IND 1	1 mon / 500 hr	Routine analysis kit.
	Worm Gear	IND 1	1 mon / 500 hr	Routine analysis kit.
	Bevel Gear	IND 1	1 mon / 500 hr	Routine analysis kit.
	Reduction Gear	IND 1	1 mon / 500 hr	Routine analysis kit.
	Differential	IND 1	1 mon / 500 hr	Routine analysis kit.



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	Final Drive	IND 1	1 mon / 500 hr	Routine analysis kit.
	Gear Extruder	IND 2	1 mon / 500 hr	Includes particle count to monitor fluid cleanliness levels, and TAN to monitor fluid degradation.
Engines	Diesel Generators	IND 1	1 mon / 500 hr	Routine analysis kit.
Fluids	New Unused Oil	IND 1	every oil shipment	Establish baseline for your oil.
	Thermal Oil	IND 2	3 mon / 1500 hr	Test kit includes flash point.

Special Sampling Considerations

Follow up on abnormal samples	IND 3	WearCheck advises that ferrographic analysis be performed with resamples on equipment that tested abnormal. Filter analysis allows the diagnostician to locate and detect major wear situations.
Extended oil drain intervals	IND 2	Any equipment that is undergoing extended oil drain interval testing should use MOB 2 test kits. These kits include TAN testing to monitor the degradation of the oil, as well as the build up of acids in the oil. Oils with high TAN levels generally experience oil thickening, sludging, improper oil flow, and corrosion of components.
Critical Systems	IND 3	IND 3 kits include the most comprehensive battery of tests to monitor the oil condition, wear condition, and contamination levels of the system.
