

# Types of analyses

Analyses from kit 1 are included in the kits 2,3,4,5

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Kit	Hydraulic	Bio Hydraulic	Gear	Wind Mill Gear	Diesel/Gasoline Engines	Vegetable oil Engines	Gas Engines	Lubricating Grease
1 white	<p><b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, PQ-Index</p> <p><b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron</p> <p><b>Contaminants:</b> Silicon, Potassium, Sodium, Water %</p> <p><b>Oil condition:</b> Viscosity at 40° + 100°C, Viscosity-Index, Oxidation, Appearance</p>	<p><b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, PQ-Index</p> <p><b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron</p> <p><b>Contaminants:</b> Silicon, Potassium, Sodium</p> <p><b>Oil condition:</b> Viscosity at 40° + 100°C, Viscosity-Index, Appearance</p>	<p><b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, PQ-Index</p> <p><b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron</p> <p><b>Contaminants:</b> Silicon, Potassium, Sodium, Water %</p> <p><b>Oil condition:</b> Viscosity at 40° + 100°C, Viscosity-Index, Oxidation, Appearance</p>	<p><b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, PQ-Index</p> <p><b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron</p> <p><b>Contaminants:</b> Silicon, Potassium, Sodium, Water %</p> <p><b>Oil condition:</b> Viscosity at 40° + 100°C, Viscosity-Index, Oxidation, Appearance</p>	<p><b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, PQ-Index</p> <p><b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron</p> <p><b>Contaminants:</b> Silicon, Potassium, Sodium, Soot, Glycol, Fuel, Water %</p> <p><b>Oil conditions:</b> Viscosity at 40° + 100°C, Viscosity-Index, Oxidation, Nitration, Sulfation, Sludge carrying properties</p>	<p><b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, PQ-Index</p> <p><b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron</p> <p><b>Contaminants:</b> Silicon, Potassium, Sodium, Soot, Glycol, Vegetable oil, Water %</p> <p><b>Oil conditions:</b> Viscosity at 40° + 100°C, Viscosity-Index, Oxidation, Nitration, Sulfation, Sludge carrying properties</p>	<p><b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, PQ-Index</p> <p><b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron</p> <p><b>Contaminants:</b> Silicon, Potassium, Sodium, Glycol, Water %</p> <p><b>Oil conditions:</b> Viscosity at 40° + 100°C, Viscosity-Index, Oxidation, Nitration, Sulfation</p>	<p><b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum</p> <p><b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron</p> <p><b>Contaminants:</b> Silicon, Potassium, Sodium</p>
2 black	Particle Count acc. ISO 4406, SAE 4059	Cleanliness acc. ISO 4406, SAE 4059	NZ	NZ	BN	AN Fuel content	BN	PQ-Index Base oil condition (FT-IR)
3 yellow	Particle Count acc. ISO 4406, SAE 4059 Water acc. to KF	Cleanliness acc. ISO 4406, SAE 4059 NZ, Density, Water acc. to KF	NZ Water acc. to KF	Optical Particle Analysis incl. Particle Count	BN AN	BN AN Fuel content	BN i-pH-value	PQ-Index Base oil condition (FT-IR) Water acc. to KF
4 red	Particle Count acc. ISO 4406, SAE 4059 Water acc. to KF NZ	Particle Count acc. ISO 4406, SAE 4059 NZ, Density Water acc. to KF	NZ Optical Particle Analysis incl. Particle Count	NZ Optical Particle Analysis incl. Particle Count	BN AN i-pH-value	BN AN i-pH-value Fuel content	BN AN i-pH-value	PQ-Index Base oil condition (FT-IR) Water acc. to KF Remaining Base Oil
5 blue	Particle Count acc. ISO 4406, SAE 4059 RULER		NZ Optical Particle Analysis incl. Particle Count Water acc. to KF	NZ Optical Particle Analysis incl. Particle Count Water acc. to KF	BN AN i-pH-value Solid contaminants	BN AN Fuel content i-pH-value Solid contaminants	BN AN i-pH-value SAN	PQ-Index Base oil condition (FT-IR) Water acc. to KF Penetration
OELCHECK recommendation	Kit 2 (Mobile hydraulic) Kit 4 (Industrial hydraulic)	Kit 3/Biokit	Kit 2 Kit 4 (Planetary gears)	Kit 4	Kit 2	Kit 2	Kit 3 (Natural gas) Kit 4 (Dump/Sewage gas)	Kit 5

# Types of analyses

Kit	Compressor	Heat Transfer Oil	Paper Machine/ Circulation Lub.	Turbine Oil	Fuel	Coolant
1 white	<b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, PQ-Index  <b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron  <b>Contaminants:</b> Silicon, Potassium, Sodium, Water %  <b>Oil condition:</b> Viscosity at 40° + 100°C, Viscosity-Index, Oxidation, Appearance  <b>Colour index</b>	<b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, PQ-Index  <b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron  <b>Contaminants:</b> Silicon, Potassium, Sodium, Water %  <b>Oil condition:</b> Viscosity at 40° + 100°C, Viscosity-Index, Oxidation, Appearance	<b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, PQ-Index  <b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron  <b>Contaminants:</b> Silicon, Potassium, Sodium, Water %  <b>Oil condition:</b> Viscosity at 40° + 100°C, Viscosity-Index, Oxidation, Appearance	<b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, PQ-Index  <b>Additives:</b> Calcium, Magnesium, Zinc, Phosphor, Barium, Boron  <b>Contaminants:</b> Silicon, Potassium, Sodium, Water %  <b>Oil condition:</b> Viscosity at 40° + 100°C, Viscosity-Index, Oxidation, Appearance  <b>Colour index</b>	<b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum, Calcium, Magnesium, Zinc, Phosphorus, Barium, Boron, Silicon, Potassium, Sodium  <b>Water acc. to KF</b>  <b>Viscosity at 40°C</b>	<b>Wear metals:</b> Iron, Chrome, Tin, Aluminium, Nickel, Copper, Lead, Molybdenum  <b>Additive/Inhibitoren:</b> Calcium, Magnesium, Zinc, Phosphorus, Barium, Boron, Silicon, Potassium, Sodium  <b>pH-value</b>  <b>Glycol content</b>  <b>Density</b>  <b>Nitrite</b>  <b>Nitrate</b>
2 black	NZ	NZ	NZ	NZ	Flash Point	Total hardness
3 yellow	NZ Water acc. to KF	NZ Flash Point	NZ Water acc. to KF	NZ Water acc. to KF	Flash Point IR-Spectroscopy	
4 red	NZ Optical Particle Analysis incl. Particle Count <sup>9</sup>	NZ Flash Point Water acc. to KF	NZ Optical Particle Analysis incl. Particle Count	NZ Particle Count Water acc. to KF	Flash Point IR-Spectroscopy Density	
5 blue	NZ Water acc. to KF Optical Particle Analysis incl. Particle Count	NZ Flash Point Conradson	NZ Optical Particle Analysis incl. Particle Count Water acc. to KF	NZ Air Release Properties	Flash Point Density CFPP	
OELCHECK recommendation	Kit 3	Kit 3 Kit 5 (large-scale plant)	Kit 3 Kit 5 (damage analysis)	see special list	Kit 3 (also see special list)	Kit 1

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