



**DIESEL/ PETROL ENGINE
BLACK**



**GEAR
BLACK**



**TRANSFORMER OILS
ISO 4**



**COOLANT AND ANTIFREEZE KIT
ADVANCED**

Test scope

| | | | |
|----------------------|-------------------------------|-------------------------------|-----------------------|
| Oxidation | Oxidation | Oxidation | Visual evaluation |
| IR-Index | IR-Index | Elements with ICP | Elements for coolants |
| Water with FT-IR (%) | Water with FT-IR (%) | Viscosity 40 °C | Anoin content |
| Nitration, Sulfation | IR-Spectroscopy | Neutralisation Number (NN) | Density coolant |
| Soot, glycol | Elements with ICP | Water acc. to Karl Fischer | pH value |
| IR-Spectroscopy | PQ-Index | Colour index | Refractive index |
| Elements with ICP | Viscosity 40 °C | Dissolved Gases (DGA) | Conductivity coolant |
| PQ-Index | Viscosity 100 °C | Density | |
| Viscosity 40 °C | VI (Viscosity index) | Dielectric dissipation factor | |
| Viscosity 100 °C | Visual evaluation | Electric breakdown voltage | |
| VI (Viscosity index) | Neutralisation or Acid Number | Interface tension | |
| Base Number (BN) | | | |
| Dispersancy | | | |
| Fuel content | | | |

All elements are determined for all kits.



Wear

Iron (Fe), chromium (Cr), tin (Sn), aluminium (Al), nickel (Ni), copper (Cu), lead (Pb), molybdenum (Mo), manganese (Mn)



Additives

Calcium (Ca), magnesium (Mg), zinc (Zn), phosphorus (P), barium (Ba), boron (B), sulphur (S) – only with ICP



Contaminations

Silicon (Si), potassium (K), natrium (Na), lithium (Li)

Indicated if the values are over 1 mg/kg:

Silver (Ag), titanium (Ti), vanadium (V), tungsten (W), bismuth (Bi), antimony (Sb), beryllium (Be), cadmium (Cd), cobalt (Co)