

## Oil Analysis – Analytical Tests

OILS	Method
Additive Depletion	Infra-Red
Aniline Point	IP2
Ash	IP223
Ash Sulphated	IP163/ASTM D874
Asphaltenes	IP143
Air Release	IP313
Bacteria/Fungi	Dip Slide
Carbon/Hydrogen/Nitrogen	BS1016:1977
Carbon Residue Conradson	IP13/ASTM D189
Carbon Residue Ramsbottom	IP14/ASTM D524
Copper Corrosion	IP154/ASTM D130
Cold Filter Plugging Point (CFPP)	IP309
Cloud Point	IP219/ASTM D2500
Cetane Index (Calculated)	IP218
Calorific Value	BS1016:1992
Chlorine	DIN51577
Demulsification Number	IP19
Distillation of Fuels	IP123
Density SG	IP160/ASTM D1298
Transformer Analysis Routine	BS5730:2001
Transformer Analysis DGA	BS5730:2001
Emulsion Stability of H <sub>2</sub> O in Oils	IP290
Emulsibility of Oils	ASTM D1401
Ferrography with photographs	In House
Flash Point PMOC	IP35
Flash Point PMCC	IP34
Foaming Characteristics	IP146/ASTM D892
Fuel Dilution by GC	In House
Insolubles (Gravimetric)	In House
Lubrigard Test	In House
Metals by ICP (22 elements) Na, Si, Al, Cr, Cu, Fe, Pb, Sn, Mo, Ag, Mn, Ti, V, Ba, Ca, Mg, P, B, Zn, Ni, Li, Cd	In House
Neutralisation Number	IP139/ASTM D974
Oxidation Stability	IP335
Oxidation Stability (RPVOT/RBOT)	IP229

Pentane Insolubles	ASTM D893
Pour Point	IP15
Particle Count (ISO)	ISO 4406/NAS 1638
PH	IP177/ASTM D664
Polychlorinated Biphenyls (PCB)	In House GC-ECD
Quinizarin in Fuels Qualitative	IP298
Rust Preventing Characteristics	IP135A&B
Sulphur X-Ray	In House
Soot by TGA	IP STG9
Total Acid Number (TAN)	IP177/ASTM D664
Total Base Number (TBN)	IP276/IP417/D4739
Thermal Gravimetric Analysis (TGA)	In House (IPSTG9 mod)
Viscosity Kinematic 40°C	IP71 Modified
Viscosity Kinematic 100°C	IP71 Modified
Viscosity Index	In House
Water Dean & Stark	IP74/ASTM D95
Water Karl Fischer	ASTM D4928
Water Carbide	In House
Water Separability	ASTM D1401