

Lab Advisor Alert

– Test suite

Our test suites are customized based on the lubricants or the system to be analyzed. In the table to the right, you can see which analyses are included in each test suite.

Test	Method	Unit	Engine (E)	Gas engine (S)	Industry (H)	Gear (G)	Heat transfer (D)	Coolant (6)	Wind power (WG)	HFC Fluid (HW)	Turbine (B)	Industry (H+MPC)
Acid number, TAN	IP 177 / ASTM D664	mg KOH/g		•		•					•	
Air release at 50 °C	ASTM D3427	Minutes									•	
Appearance	In-house	Grading: 10–80			•	•		•	•	•	•	•
Base number, TBN	IP 276 / ASTM D2896	mg KOH/g	•	•								
Biodiesel	ASTM D7593	%	•									
Chlorine, ICP	ASTM D5185	ppm		•								
Conradson Carbon Residue (Micro Method)	ASTM D4530	wt %					•					
Elemental analysis, ICP	ASTM D5185	ppm (mg/kg)	•	•	•	•	•	•	•	•	•	•
Ferrous debris	In-house: PQ	–			•	•			•	•	•	•
Flash point	In-house: Hot plate	°C	•									
Flash point	ASTM D6450	°C					•					
Foaming characteristics, seq I	IP146	ml									•	
Freezing point	In-house	°C						•				
Fuel	ASTM D7593	%	•									
Glycol content	Calculated by refractive index	%						•				
Glycol, %	In-house	%	•	•								
Initial pH, IpH	IP 177 / ASTM D664	–		•								
Neutralization number	IP 139 / ASTM D974	mg KOH/g			•		•		•			•
Nitration	DIN 51453 / JOAP / ASTM E2412	Abs/cm	•	•								
Oil condition index, OCI	In-house	Scale 0–40	•	•								
Oxidation	DIN 51453 / JOAP / ASTM E2412	Abs/cm	•	•								
Oxidation stability (RPVOT)	ASTM D2272	Minutes									•	
Particle count (38, 50 µm)	ASTM D7647	No.							•			
Particle count (4, 6, 14 µm)	ISO 4406	ISO Code & No.			•				•	•	•	•
Particles, overall SAE AS4059 code	ASTM D7647	SAE value			•				•		•	•
pH	In-house	–						•		•		
Refractive index	ASTM D1218	–						•				
Reserve alkalinity	ASTM D1121	ml 0.1M HCl						•		•		
RULER (% rel ref), amines	ASTM D6971	% rel ref									•	
RULER (% rel ref), hindered phenols	ASTM D6971	% rel ref									•	
Soot	ASTM E2414	wt %	•	•								
Varnish potential (MPC)	ASTM D7843	Grading: 0–60									•	•
Water content	In-house: Crackle/carbide	%	•	•			•					
Water content	ASTM D6304	ppm			•	•			•		•	•
Water content	ASTM D95	%								•		
Water separability at 54 °C	ASTM D1401	ml (min)									•	
Viscosity at 100 °C	ASTM D7279	mm ² /s	•	•	•	•			•		•	•
Viscosity at 40 °C	ASTM D7279	mm ² /s	•	•	•	•	•		•	•	•	•
Viscosity index, VI	ASTM D2270	–							•			

Alert oil sample analysis 100 ml

Alert Turbine sample analysis (require Turbine sample bottle)

Alert oil MPC, require MPC sample bottle (250 ml)