OIL ANALYSIS TESTS

FLUID LIFE
EQUIPMENT RELIABILITY SERVICES

CATEGORY	LABORATORY TEST	TEST METHOD	VOLUME
FLUID PROPERTIES	Viscosity @ 40C	ASTM D445 mod.	100ml
	Viscosity @ 100C	ASTM D445 mod.	100ml
	Viscosity Index (VI)	ASTM D2270	100ml
	Oxidation / Nitration / Sulfation (Engines only)	ASTM D7414 / D7624 / D7415 / E2412 mod.	100ml
	Flash Point (Cleveland Open Cup or Closed Cup)	ASTM D92 mod. (open) ASTM D93 mod. (closed)	100ml / 100ml
	Base Number (BN) 3 options	ASTM D2896 mod. / ASTM D4739 mod. / FL Method	30ml / 30ml / 10ml
	Acid Number (AN) 3 options	FL Method / ASTM D664 mod. / ASTM D974 mod.	10ml / 30ml / 30ml
	Acid Number (ASTM D664) + ipH (Initial pH)	ASTM D664 and D7946 mod.	30ml
	Copper Corrosion Test	ASTM D130 mod.	80ml
	Rust Test	ASTM D665 mod.	800ml
	Foam Test (Tendency / Stability)	ASTM D892 mod.	200ml
	Demulsibility	ASTM D1401 mod.	100ml
	RULER Test (Remaining Useful Life – requires new oil reference)	ASTM D6971 mod.	20ml (+ ref oil)
	RPVOT (Oxidation Stability)	ASTM D2272 mod	200ml
	ICP Spectrometry (Additives)	ASTM D5185 mod.	100ml
CONTAMINATION	Water (Positive / Negative)	Crackle Test	100ml
	% Water (Karl Fischer)	ASTM D6304 mod.	10ml
	% Soot	ASTM D7844 mod.	100ml
	Fuel Dilution (by Gas Chromatography)	ASTM D7593 mod.	10ml
	Glycol Contamination (Gas Chromatography)	ASTM D7922 mod.	10ml
	Glycol Contamination (in Engine Oil by Chemometric FTIR)	FL Method	10ml
	ISO Particle Count	ISO 4406 / ISO 11500	20ml
	ISO Particle Count w/Optical Particle Classification (OPC)	ASTM D7596 mod.	50ml
	Varnish Potential (Membrane Patch Colorimetry)	ASTM D7843 mod.	100ml
WEAR DEBRIS	ICP Spectrometry (Wear Debris)	ASTM D5185 mod.	100ml
	Analytical Ferrography	ASTM D7690 mod.	10ml
	Total Magnetic Iron (TMI)	FL Method	10nl
	Scanning Electron Microscopy (SEM)	SEM	Call for Info
OUT-SOURCED	Air Release Test	ASTM D3427	500ml
	Pentane Insolubles / Toluene Insolubles	ASTM D893	50ml
	NOTE: Turnaround cannot be guaranteed on outsourced testing		

Please contact Fluid Life for program planning support (www.fluidlife.com).

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