

Comparison: Wear Debris Analysis Technologies

Test	TMI	OPC/ISO	ICP	XRF	Ferrography	SEM-EDS
Particle Detection Range	>40um	4um – 150um	~0um – 10um	All	>10um	>0.1um
Particle Count	N/A	Yes	N/A	N/A	N/A	Yes
Particle Sizing	N/A	Yes	N/A	N/A	Limited	Yes
Particle Shape Classification	N/A	Limited to OPC	N/A	N/A	Yes	Yes
Elemental Composition of Individual Particles	N/A	N/A	N/A	N/A	Visual Subjective	Yes
Elemental Chemical Analysis Range	Ferrous Debris Only	None	26 Elements	~50 – 90 Elements	N/A	~50 – 90 Elements