

Potential Source of Spectrometry Metals

Aluminum (Al)	Barium (Ba)	Boron (B)	Calcium (Ca)	Chromium (Cr)
<p>Wear Metals: Bearings, Blocks, Blowers, Bushings, Clutches, Cylinders, Housings, Pistons, Pump Bushings, Motor Housing, Rotors, Thrust Bearings, Thrust Washers.</p> <p>Contaminates & Additives: Grease Thickener, Paint, Road Dust, Abrasives: Alumina, Bauxite, Catalyst, Coal, Fly Ash, Foundry Dust, Granite</p>	<p>Contaminates & Additives: Fuel Additive, Grease Thickener, Oil Additive: Detergent</p>	<p>Contaminates & Additives: Coolant Inhibitor, Oil Additive: Anti Wear, Detergent, Extreme Pressure</p>	<p>Contaminates & Additives: Cement Dust, Fuller's Earth, Grease Thickener, Gypsum, Hard Water, Lignite, Limestone, Mining Dust, Road Dust, Rubber, Salt Water, Slag, Oil Additive: Detergent, Rust Inhibitor</p>	<p>Wear Metals: Exhaust Valves, Lines, Low Alloy Steel, Oil Coolers, Rings, Rods, Roller/Taper Bearings, Stainless Steel.</p> <p>Contaminates & Additives: Water Treatment, Paint, Other Chemicals</p>
Copper (Cu)	Iron (Fe)	Lead (Pb)	Magnesium (Mg)	Molybdenum (Mo)
<p>Wear Metals: Babbitt Bearings (underlay), Bearing Cage, Brass, Bronze, Cam Bushings, Clutches, Governor, Guides, Oil Cooler, Oil Pumps, Pump Pistons & Thrust Plates, Steering Discs, Valve Train Bushings, Wear Plates, Wrist Pin Bushings.</p> <p>Contaminates & Additives: Paint, Oil Additive: Anti Wear</p>	<p>Wear Metals: Bearings, blocks, Brake Bands, Camshaft, Cast Iron, Crankshafts, Cylinders, Discs, Gears, Housing, Hydraulic Pump, Vanes, Gears, Pistons; Liners, Oil Pump, PTO, Rings, Screws, Shafts</p>	<p>Wear Metals: Babbitt, Journal Bearing Overlay, Bronze Alloy, Solder</p> <p>Contaminates & Additives: Gasoline Additive, Paint, Road Dust, Balancing Weights</p>	<p>Wear Metal: Turbine Metallurgy</p> <p>Contaminates & Additives: Hard Water, Road Dust, Seawater, Fuller's Earth, Oil Additive: Detergent</p>	<p>Wear Metals: Alloy Steel, Rings</p> <p>Contaminates & Additives: Oil additive: Extreme Pressure</p>
Nickel (Ni)	Phosphorous (P)	Potassium (K)	Silicon (Si)	Silver (Ag)
<p>Wear Metals: Hardened Steels, Stainless Steels, Plating</p>	<p>Contaminates & Additives: Cleaning Detergent, Oil Additive: Anti Wear, Extreme Pressure</p>	<p>Contaminates & Additives: Coolant Inhibitor, Fly Ash, Fuel Element, Granite, Paper Mill Dust, Road Dust</p>	<p>Wear Metal: Alloy Steel</p> <p>Contaminates & Additives: Asbestos, Cement Dust, Fly Ash, Coolant Additive, Glass, Granite, Grease, Limestone, Road Dust, Synthetic Lubricant, Slag, Sealant, Oil Additive: Anti-foam</p>	<p>Wear Metal: Alloy Steel, Bearing Overlay, Needle Bearings, Oil Coolers (Solder), Wrist Pin Bushings (EMD Engines)</p>
Sodium (Na)	Tin (Sn)	Titanium (Ti)	Zinc (Zn)	
<p>Contaminates & Additives: Activated Alumina, Coolant Inhibitor, Dirt, Fly Ash, Grease, Oil Additives, Paper Mill Dust, Road Salt</p>	<p>Wear Metals: Bearing Cage, Babbitt, Bearing Flashing, Piston Overlay, Solder</p>	<p>Wear Metals: Gas Turbine Bearings, Turbine Blades</p> <p>Contaminates & Additives: Paint</p>	<p>Wear Metals: Brass, Plating</p> <p>Contaminates & Additives: Cathodic Protection, Galvanizing, Grease, Oil Additive: Anti Wear</p>	