

ELEMENT DESCRIPTION

CU	Copper - Bearings, thrust washers, bushings, bronze and brass parts, oil coolers, discs and plates in some transmissions. Readings may vary dramatically, if all other metals are within normal levels and no antifreeze is present, please disregard. Always refer to the current evaluation.
FE	Iron - Rust, gears, shafts, cylinders, valve train components, pistons in some applications.
CR	Chrome - Piston rings, chrome plated crankshafts, chrome plated exhaust valves, roller and ball bearings.
PB	Lead - Overlay in main and rod bearings, turbocharger bearings, camshaft bearings, bushings in some applications. Solder on older coolers/radiators.
SN	Tin - Overlay in main and rod bearings, turbocharger bearings, camshaft bearings, bushings in some applications. Solder on older coolers/radiators.
NI	Nickel - Trace element, bearing overlay, alloy metal to harden iron, stainless steel, nickel plating, gears, shafts, bearing wear.
AL	Aluminum - Bearings, thrust washers, fuel pump lifters, dirt entry from clay soils, converter, pump bushings, pistons. Solder on newer coolers.
SI	Silicon - Contamination from dirt or dust entry. Excessive amounts can greatly accelerate component wear (silicone is used in some grease and as an oil additive, sealants, coolant additive).
NA	Sodium - Inhibitor leaking from cooling system, oil additive, environmental contaminate (water). Coolant additive from a leak in the cooling system, fuel additives.
K	Potassium - Coolant additive from a leak in the cooling system, solder on newer coolers.
BA	Barium - Oil/ fuel/ grease additive
B	Boron - Oil additive (detergent/dispersant) coolant additive, corrosion inhibitor
MN	Manganese - Stainless steel alloy, anti-corrosion oil additive.
MO	Molybdenum - Piston ring coating in some engines, additive in some oils, coolant additive.
MG	Magnesium - Oil additive (high TBN detergent, dispersant), alloying metal, additive in gasoline.
CA	Calcium - Road salts, oil additives, hard water
CD	Cadmium - Corrosion resistant plating on steel.
P	Phosphorus - Oil additive (detergent-dispersant-anti wear additive), coolant additive from leak in cooling system.
TI	Titanium - Anti wear additive, gear, shaft, bearing wear
ZN	Zinc - Oil additive (anti-wear, anti-oxidants, corrosion inhibitors, detergents, extreme pressure).
AG	Silver - Trace element, bearing overlay, attacked by high levels of zinc.
V	Vanadium - Alloy of harden steel.