



**OSA4 MotorCheck®, OSA4 TruckCheck®, OSA4 MicroLab®, &
OSA4 MetalLab®
Metals Specifications**

<i>Basic Metals</i>	Low Range ppm	2 σ Accuracy ppm
Iron (Fe)	0-1000	The greater of ± 6 or 8%
Chromium (Cr)	0-100	± 8
Lead (Pb)	0-150	± 6
Copper (Cu)	0-500	± 5
Tin (Sn)	0-100	± 6
Aluminum (Al)	0-100	± 5
Molybdenum (Mo)	0-1000	The greater of ± 5 or 8%
Silicon (Si)	0-150	± 5
Sodium (Na)	0-1000	The greater of ± 10 or 10%
Potassium (K)	0-100	± 10

Extended Metals	Low Range ppm	2 σ Accuracy ppm	High Range ppm	2 σ Accuracy ppm
Iron (Fe)	0-1000	The greater of ± 6 or 8%	350-3000	$\pm 20\%$
Chromium (Cr)	0-100	± 8	NA	NA
Lead (Pb)	0-150	± 6	NA	NA
Copper (Cu)	0-500	± 5	350-1,000	$\pm 20\%$
Tin (Sn)	0-100	± 6	NA	NA
Aluminum (Al)	0-100	± 5	NA	NA
Nickel (Ni)	0-100	± 5	NA	NA
Molybdenum (Mo)	0-1000	The greater of ± 10 or 10%	NA	NA
Titanium (Ti)	0-100	± 8	NA	NA
Manganese (Mn)	0-100	± 5	NA	NA
Vanadium (V)	0-100	± 7	NA	NA
Silicon (Si)	0-150	± 5	350-1,000	$\pm 15\%$
Boron (B)	0-100	± 5	350-1,000	$\pm 15\%$
Magnesium (Mg)	0-100	± 5	350-3,000	$\pm 20\%$
Calcium (Ca)	25-150	± 25	500-5,000	$\pm 20\%$
Barium (Ba)	25-150	± 25	350-2,000	$\pm 20\%$
Phosphorous (P)	100-600	± 40	800-4,000	$\pm 20\%$
Zinc (Zn)	0-100	± 8	350-4,000	$\pm 20\%$
Sodium (Na)	0-1000	The greater of ± 10 or 10%	350-1,000	$\pm 20\%$
Potassium (K)	0-100	± 10	350-4,000	$\pm 20\%$

Notes:

- High Range accuracy is diminished compared with Low Range because of expanded dynamic range and corresponding lower signal-to-noise ratio.**
- Accuracy values reflect typical conditions of use and anticipate mutual spectral interferences among elements where likely.**