

Wear Metal Analyzers – At a glance



Profile HT/HP Wear Metal Analyzer



Prodigy HT/HP Wear Metal Analyzer

Speed of Analysis	27 Seconds per Sample	43 Seconds per Sample
Usage	The analysis of wear metals, additive elements and contaminants in used oils, base oils, coolants and other matrices	
Detector	<ul style="list-style-type: none"> • Photomultiplier Tube • High Speed • High Sensitivity • Low Noise 	<ul style="list-style-type: none"> • Large Format Programmable Array Detector (L-PAD) • Versatile Solid State Detector • > 1 Million Pixels
Optics	<ul style="list-style-type: none"> • 600 mm Focal Length • 177-800 nm Wavelength Coverage • 0.008 nm Resolution @ 200 nm • Measurement of up to 45 Elements • Computerized Dynamic Temperature Compensation 	<ul style="list-style-type: none"> • 800 mm Focal Length • 165-900 nm Wavelength Coverage • <0.005 nm Resolution @ 200 nm • Any Wavelength at any time – no hardware changes required • Thermostatted Optics
Sample Introduction	<ul style="list-style-type: none"> • One Piece Wide Bore Quartz Torch • High Sensitivity, Low Volume Cyclonic Spray Chamber • High Performance Ryton V-Groove Nebulizer 	
Plasma Source	<ul style="list-style-type: none"> • Free Running 40.68 MHz Generator • Ultra-Long Life, Water-Cooled Power Tube (2 year warranty) • Directly Coupled Auto-Tune Impedance Control • Fully Automated Ignition and Operation 	
Features	<ul style="list-style-type: none"> • Compact Bench-top Systems fit on Standard Laboratory Bench <ul style="list-style-type: none"> • High Resolution Echelle Optics • Built-in Air Compressor for Axial Shear Gas <ul style="list-style-type: none"> • Remote Diagnostics • Enhanced Sample Throughput • Easy Access Sample Introduction Areas • Compatible with Caterpillar SOS Data Reporting Program <ul style="list-style-type: none"> • Mass Flow Control on Torch Gas Flows 	
Methods	<ul style="list-style-type: none"> • Caterpillar SOS <ul style="list-style-type: none"> • ASTM 5185 • ASTM 4951 • DIN 51396-1 	
Optional Wear Metal Standards	<p>Metallo-Organic Standards</p> <ul style="list-style-type: none"> • Stringent QC Protocols applied to manufacturing <ul style="list-style-type: none"> • Sulfur-free single element standards • 12 element, 21 element, 23 element blends available <ul style="list-style-type: none"> • Metal additive standards 	



TELEDYNE INSTRUMENTS

Leeman Labs

A Teledyne Technologies Company

Tel: 603.886.8400 • www.leemanlabs.com