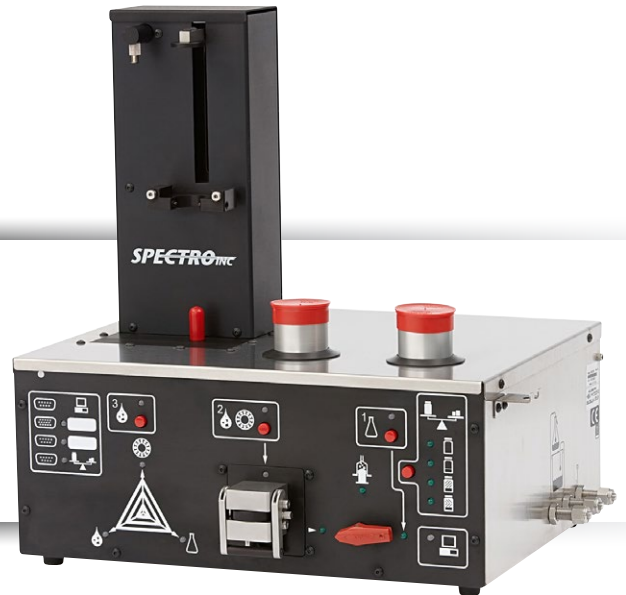


Spectro 5200

TRIVECTOR™ ANALYZER

Enabling fast, in-house machine condition based maintenance decisions for rotating machinery



The Spectro 5200 Advantage

Principle root causes of equipment failure include unseen corrosion, contaminants, improper lubrication and machine wear.

The Spectro 5200 Trivector Oil Analyzer is a multi-function instrument that detects lubricant related problems and enables on-site analysis of machinery oils and lubricants.

It provides clear indications of metal wear, lubricant chemistry and contamination. The system is covered by the ASTM D7416 standard practice that ensures users can achieve repeatable results following standard operating guidelines.

Primary applications include lubricants for rotating machinery such as pumps, motors, compressors, gearboxes, air handlers, turbines, feed pumps, drives, transmissions, and hydraulic systems.

Reduce unexpected downtime

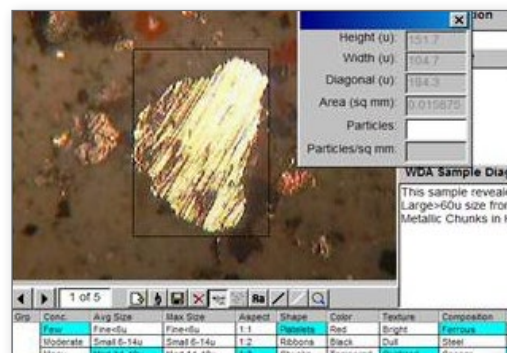
- Provides a comprehensive overview and indication of metal wear, lubricant chemistry and contamination
- Generates machinery health trend analyses to support data driven predictive and preventive maintenance decisions

Reduce maintenance and replacement parts costs

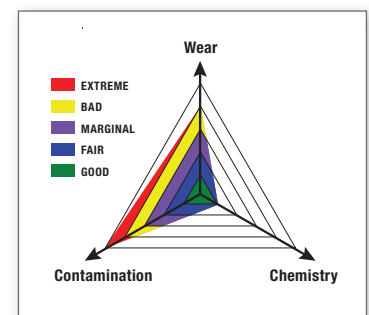
- Early identification of particle contamination from lubricated metal parts wear allows early, preventive intervention prior to catastrophic failure.
- Lubricant condition monitoring conserves oil and reduces oil disposal costs by driving maintenance on an as needed basis.

Benefits and features

- Immediate, on-site lubricant analysis (<10 min) for informed preventive maintenance decisions.
- Comprehensive oil analysis at an affordable price
- Includes Oilview software, an integral part of the Emerson AMS Machinery Health Manager software suite
- Compact, table top system minimizes cost and footprint



The Comprehensive Minilab provides wear debris analysis capability with a Wear Debris Image Capture system and WDA software module.



The Spectro 5200 Trivector measures, logs and trends the lubrication condition of rotating industrial machinery and detects contamination and machine wear per ASTM Standard Practice D7416. System outputs include front panel indications of the Trivector status which provide intuitive, easy to understand indications of machinery health and alerts.

Spectro 5200 Ordering Information

The **Comprehensive Minilab** includes the 5200 Trivector Analyzer, Digital Viscometer, Stereoscopic Zoom Microscope, Wear Debris Image Capture System, and Oilview Minilab, WDA, and LIMS software modules.

The **Basic Minilab** includes the 5200 Trivector Analyzer, Digital Viscometer and the Oilview Minilab software module.

PRODUCT INFORMATION		
Part Number	A520010-DM	Spectro 5200 Comprehensive Minilab with Oilview software, 110VAC, 60Hz, 6A
	A520010-IN	Spectro 5200 Comprehensive Minilab with Oilview software, 220VAC, 50Hz, 3A
	A520009-DM	Spectro 5200 Basic Minilab with Oilview software, 110VAC, 60Hz, 6A
	A520009-IN	Spectro 5200 Basic Minilab with Oilview software, 220VAC, 50Hz, 3A
Application	Petroleum, polyalphaolefin (PAO), or synthetic hydrocarbon (SHC) base oils of viscosity grades 32-680	
Output	<ul style="list-style-type: none"> – Particle count per ISO 4402/4406 and ISO 11171 – Water content, 0-5% – Total particle volume, 0-30 PPM, per ASTM 7416 – Ferrous index per ASTM 7416 – Wear debris Severity and Analysis per ASTM D7416 and ASTM D7684 (Comprehensive minilab only) – Lubricant viscosity, 32-680 cSt (kinematic viscosity calculated from dynamic viscosity measurement at ambient temperature) – Dielectric, 1.5-5 – Chemical Index indicates changes in TAN, TBN, Glycol, TGA, soot, dielectric 	
Methodology	ASTM Standard Practice ASTM D7416	
Calibration	Annual	
OPERATIONAL SPECIFICATIONS		
Sample Volume	50 mL (2 oz.)	
Solvents/Reagents	lamp oil	
Ambient Operating Temperature	15-30C (59°F to 86°F), Maintain temperature constant within +/- 3C (5°F) for rated performance	
Storage Temperature	5-35C (41°F to 95°F)	

USER INTERFACE SPECIFICATIONS	
Software/Operating System	AMS Machinery Manager 5.5 or higher with Oilview Module
Display	External monitor, front panel LEDs for Trivector status
Data Transfer	RS-232C serial
POWER REQUIREMENTS	
Power	AC 110V, 60Hz, 6A or 220V, 50Hz, 3A
MECHANICAL SPECIFICATIONS	
Dimensions	45 cm (H) x 44 cm (W) x 36 cm (D) (18 in x 17.25 in x 14.25 in)
Weight	12.5 kg (28 lbs)
Shipping package dimensions	3 boxes, each 64 cm x 56 cm x 56 cm (25 in x 22 in x 22 in)
Shipping package weight	3 boxes, each 19 kg (42 lbs)
COMPLIANCE	
CE mark	
CONSUMABLES	
MHM-92631	Filter patch, 5 micron, qty 100
MHM-10605	10 cc syringes, qty 100
MHM-10610	30 cc syringes, qty 50
MHM-10698-BX	sample bottles, 4 oz., qty 48