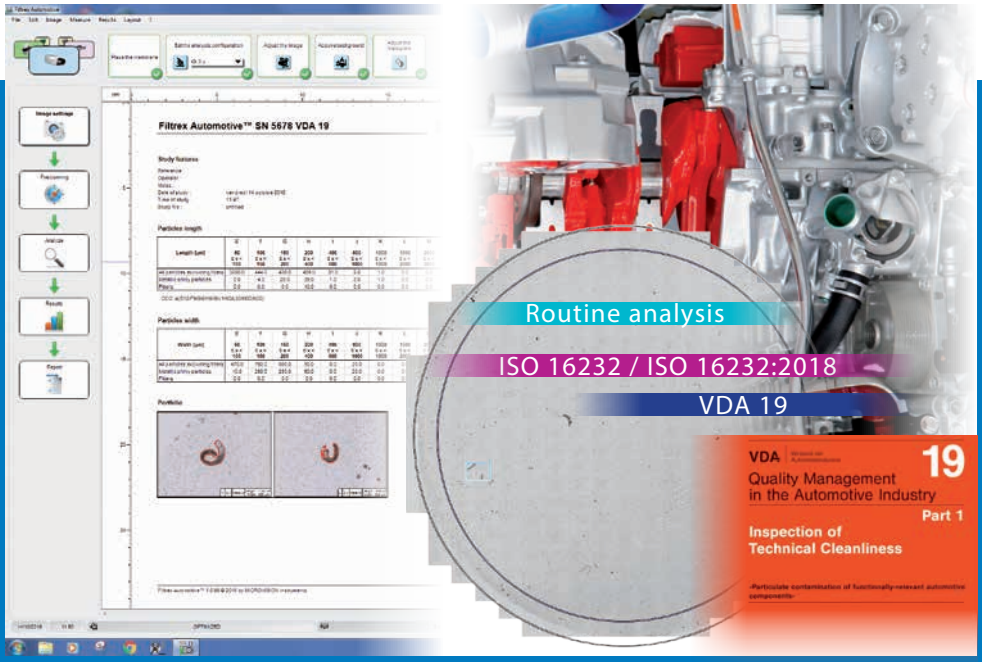
Filtrex Automotive

MICROVISION INSTRUMENTS

Automated particle and fiber counting

Mechanical parts cleanliness analysis



Filtrex Automotive is a turnkey system, dedicated to automated analysis of mechanical parts particle contamination, in the automotive industry:

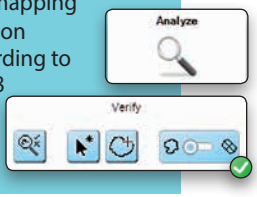
- **Routine analysis**
- **Cleanliness of: ball bearing, conrod, piston, crankshaft, injector, toothed wheels…**

- **3 -step automated analysis**
- **Fully compliant** with automotive industry standards: **ISO 16232, ISO 16232:2018, VDA 19**
- Matte and shiny particle counting, fiber measurement
- Polarized camera for increased detection efficiency
- Secured by 2 access levels: administrator and operator
- Modular and upgradeable turnkey system

With **Filtrex Automotive**, perform your **automatic cleanliness analysis in 3 steps**:

1. ▶ Filter positionning
   ▶ Aided background correction
   ▶ Detection circle adjustment

2. ▶ Automatic sample scanning system and autofocus
   ▶ Exhaustive counting and membrane mapping
   ▶ Detection, measure and characterization of fiber, matte and shiny particle according to 3 modelings: elliptical, ISO 16232:2018 or advanced
   ▶ Manual check on largest particle and fiber



3. ▶ Counting table and statistics exportable to Excel
   • Particles: length ($Feret_{max}$) and width ($Feret_{min}$)
   • Fibers: $Feret_{max}$ or elongated length
   ▶ Cleanliness index
   ▶ Largest particles display
   ▶ Automatic generation of custom files for your LIMS - on demand

Parameters protected by administrator level:

- ▶ Source selection: scanner, microscope…
- ▶ Membrane diameter & scan area
- ▶ Advanced image settings
- ▶ Advanced detection settings
- ▶ Report settings

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Filtrex Automotive, the Filtrex routine system

		Filtrex Automotive	Filtrex
Mechanical parts cleanliness analysis		●	●
Cleanliness analysis of: fluids, powders, pharmaceutical parts…		-	●
Standards compliance	VDA 19, ISO 16232, ISO 16232:2018	●	●
	ISO 4406	-	●
	USP 788	-	●
	NF L41-101	-	●
	User-defined standards	-	●
Automated analysis		●	●
Programmable analysis		●	-
Analysis templates		●	●
Free "varieties" setting: fiber, particle…		(1)	●
Free customization of counting tables		(2)	●
Full customization of classes, Cleanliness Code specification		(3)	●

(1) - "Varieties" (fiber, particle) as defined by ISO 16232, ISO 16232:2018 and VDA 19
(2) - Tables set out by VDA and ISO standards
(3) - Fixed classes - as defined by the standards, may be combined - direct CCC entry available

MICROVISION INSTRUMENTS

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