HIGH SPEED
**CLEANLINESS
ANALYSIS**

CLEMEX
Defining Intelligent Microscopy

Integrated solutions
with Contaminants software

RAPID SCANNING
Full analysis of 47mm filter in under 2 minutes at 50X
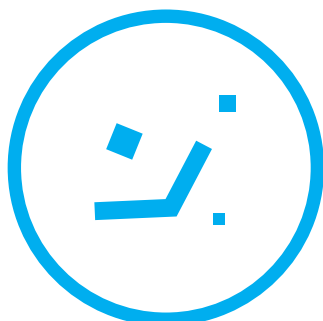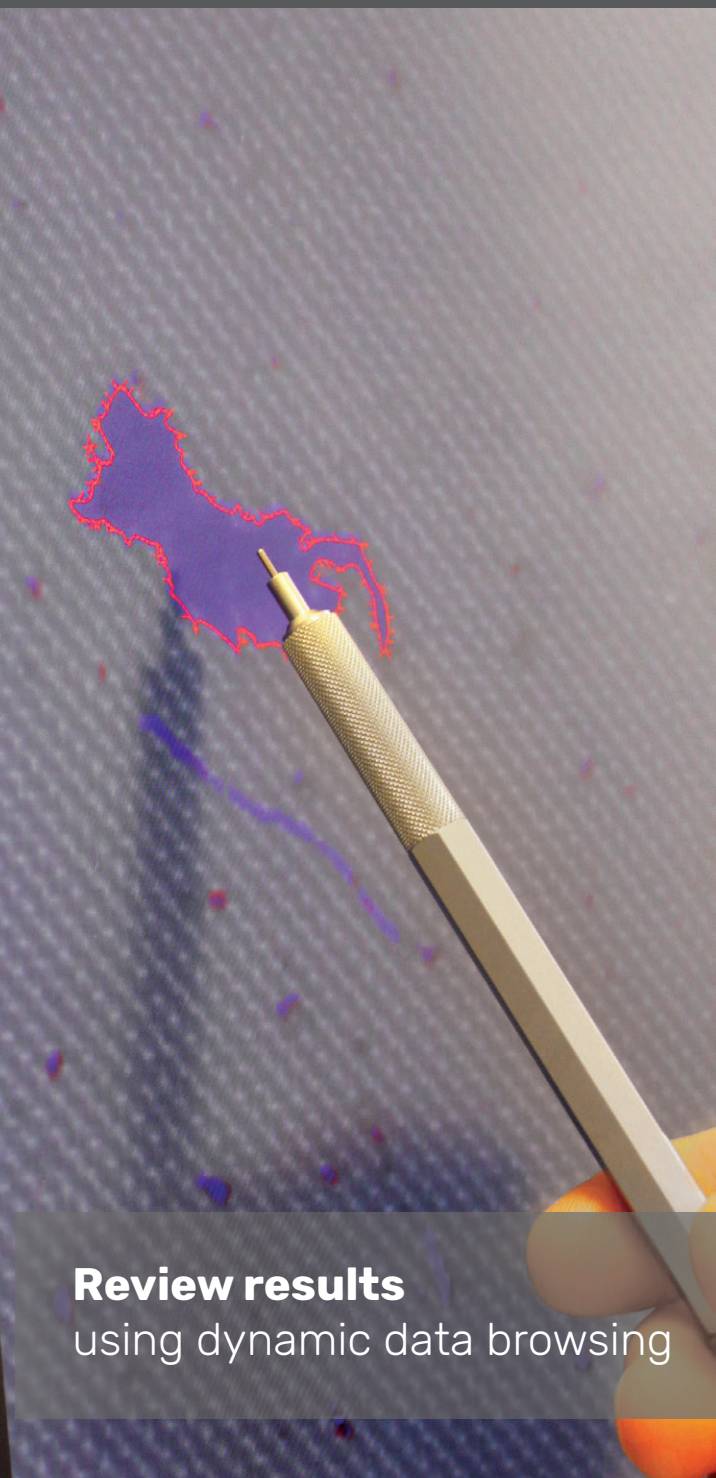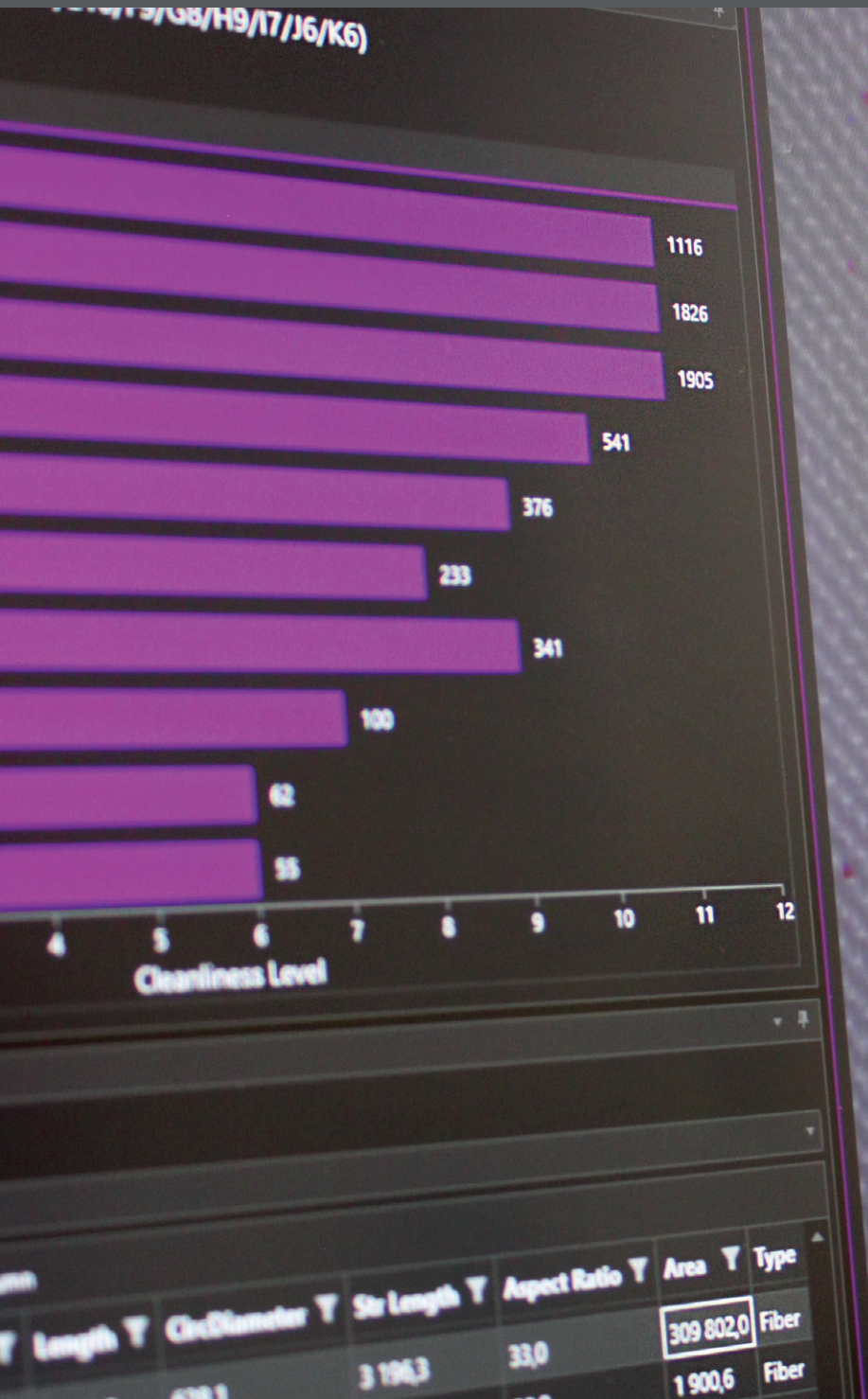
CONTAMINANT STANDARDS
ISO 16232
ISO 4406-4407
IEST-STD-CC1246E

EASY PARTICLE SORTING
Automatic classification of fibers, non-metallic and metallic particles

Review results
using dynamic data browsing

EVERY FILTER SAMPLE
DESERVES THE SAME ATTENTION

SAMPLE REPORT

CLEMEX

Cleanliness Evaluation Report
Page 2 of 2

#### ISO 16232

SAMPLE OVERVIEW

Mosaic of filter at 50x

LARGEST PARTICLES

| 538.84µm Metallic | 277.78µm Non-Metallic | 5218.91µm Fiber |
| 428.02µm Metallic | 256.39µm Non-Metallic | 5017.94µm Fiber |

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Cleanliness Evaluation Repor...

ISO 16232

SAMPLE IDENTIFICATION

Sample name:	Sample 01
Batch number:	batch 9A4
Production line:	Line B

TEST PARAMETERS

Analyst:	matthieug	Date:	5/2...
Magnification:	50x	Filter area:	96...
Calibration:	1.1640 µm/pixel	Covered area:	96...

RESULTS & STATISTICS

CCC:	C(B12/C11/D12/E11/F9/G8/H8/I6/J5/K5)	Particle area coverage:	0.9...
Global:	14	Total particle area:	8.7...
Normalization method:	By Components (1 cm³)	Normalized count:	925

NORMALIZED COUNT CHART

NORMALIZED COUNT GRID

Size class	CL Level	Particle Count	Metallics	Non-Meta...	
B	12	3609	0	3609	
C	11	1344	0	1344	
D	12	2182	3	2179	
E	11	1312	22	1290	
F	9	334	14	182	138
G	8	149	5	42	102
H	8	212	3	14	195
I	6	49	2	0	47
J	5	31	0	0	31
K	5	28	0	0	28

Reports include a user selectable number of largest particle images for each class of particle

04

AUTOMATED ANALYSIS
FROM SCANNING TO REPORTING

231
PARTICLES
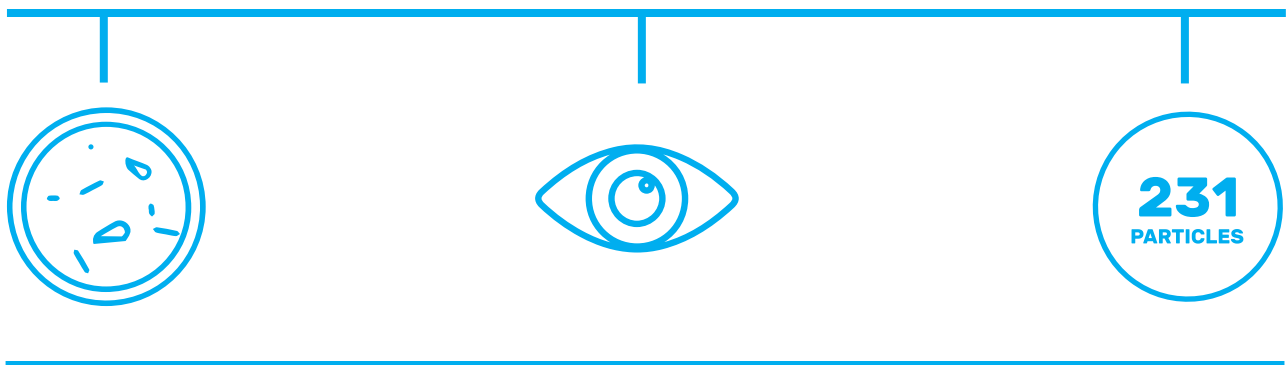
ACQUISITION & ANALYSIS

Increase the number of samples analyzed per hour

Thanks to our continuous stage motion technology, images are acquired and analyzed at high speed without any loss of precision. Metallic and non-metallic particles, as well as fibers, are all identified in real-time. A standard 47 millimeter membrane filter can be analyzed in under two minutes at 50x.

REVIEWING DATA

Flexible tools allow users to easily verify particulate data

Full resolution deep-zoom viewing of particles, dynamic particle data browsing and advanced data sorting and filtering options all contribute to a better user experience. We understand how important it is to get answers fast and make sure the results are what you expect.

INTEGRATED REPORTING

Template-based reporting consistent with industry standards

A user-friendly, integrated PDF generator allows you to create reports in a single step from within the software. Templates for all listed standards are included.
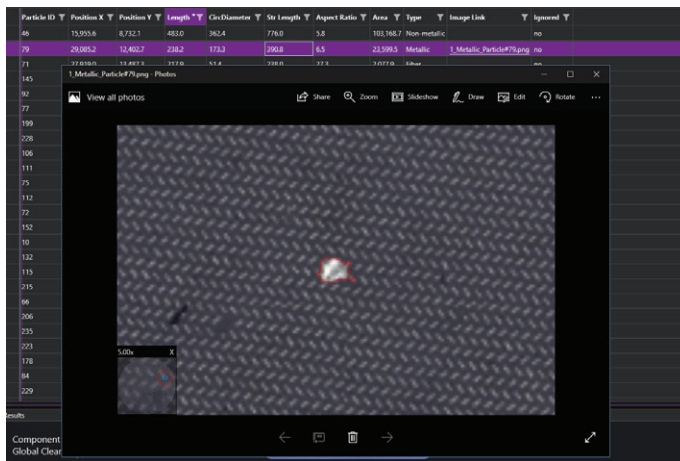
CLEMEX
SERVICE
&
SUPPORT

TRANSFER
OF EXPERTISE

Passion for new technology is our motivation to offer the
best customer care service possible to our clients.
Clemex software is designed by our experienced engineers.
It is perfectly adapted to an end-user's workflow and
has a short learning curve.

06

USER ORIENTED FEATURES
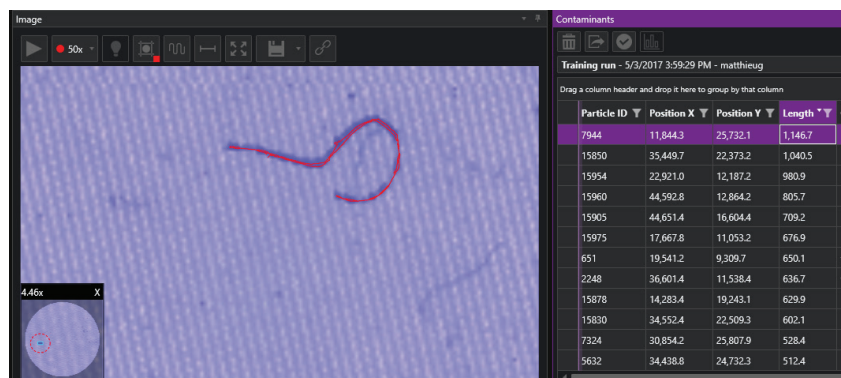## FOR SMART REVIEWING AND REPORTING

REVIEWING SAVED RESULTS

Historical data can be saved and retrieved for comparaison purposes. Saved images are linked to particle results and can be viewed in a single click. PDF reports can be generated from saved historical data.

VIEWING AN INDIVIDUAL CONTAMINANT

Clicking on the data of an individual contaminant will immediately bring up the contaminant in the Image Panel. Reversely, clicking on a contaminant in the image will highlight the corresponding data.

FILTERING AND GROUPING DATA

Besides standard sorting options, each data column also has complete filtering functionalities. Users can exclude contaminants that fall above or below a certain range. Grouping data can be done on any category, for example Fiber, Metallic or Non-metallic.

Clemex Technologies Inc.
800 Guimond Street
Longueuil QC J4G 1T5
CANADA

+1.450.651.6573
+1.888.651.6573
info@clemex.com

www.clemex.com