



Pall Corporation

## Component Cleanliness Consulting

- Document and define quality standards
- Optimize washing process and testing procedures
- Improve manufacturing and assembly processes
- Reduce costs

*You cannot manage  
what you do not monitor.  
You cannot monitor  
what you do not measure.*

Filtration. Separation. Solution.<sup>SM</sup>



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**Measure**

Determine quantity and types of contamination. Check deviation by lot.

### Quality Management



# The Pall Cleanliness Audit



## Optimize Quality and Productivity

- Lower warranty costs
- Maximize customer satisfaction
- Increase output

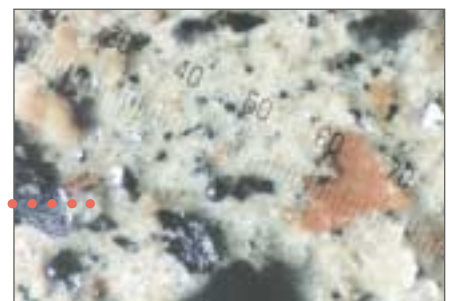
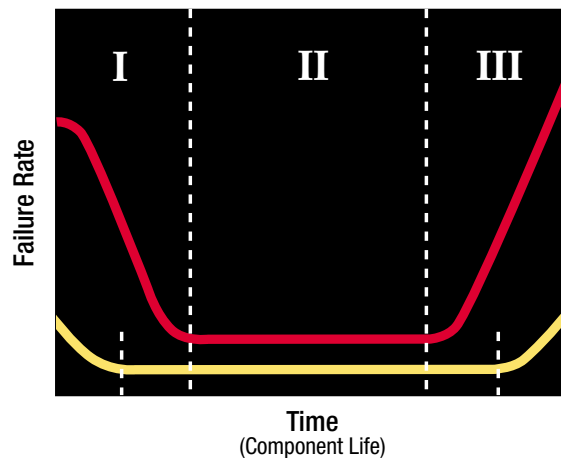
## System Cleanliness = Product Quality

- Consistent product quality lot to lot
- Reduce rework
- Reduce infant mortality

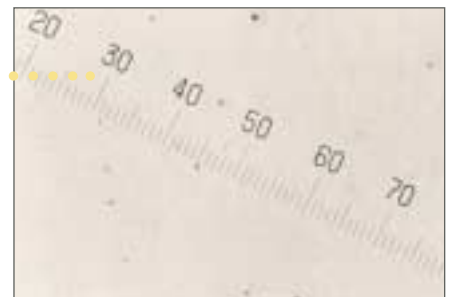
## System Cleanliness = Process Improvement

- Component cleanliness
- Longer component life
- Lower costs and less time at testing

## Failure Rate vs. Time



With dirty fluid at testing



With clean fluid at testing

# Component Cleanliness Cabinet

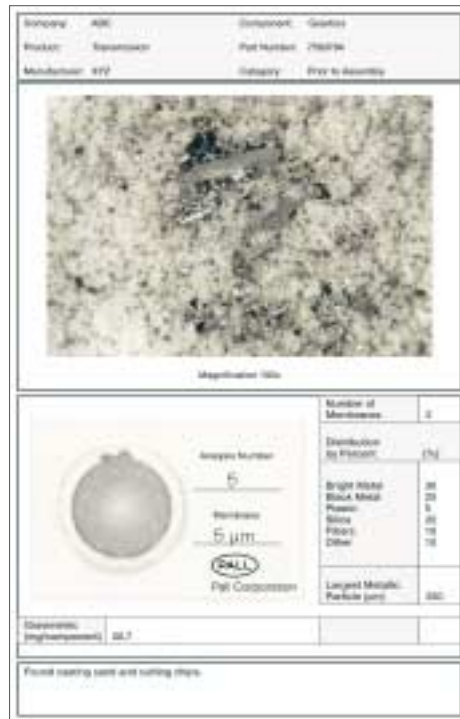
## Consistent, Accurate Results

### Quantitative Analysis

- Gravimetric Analysis  
(Mass of dirt on oil-wetted component surfaces)

### Qualitative Analysis

- Define the largest metallic particle
- Determine percentage of typical contaminants



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Visit us on the Web at [www.pall.com/contaminationcontrol](http://www.pall.com/contaminationcontrol)

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