

Maintenance professionals devote significant planning and effort to maintaining their equipment because they know the high cost of equipment downtime and lost production. Most organizations select lubricants for the application and performance additives, but overlook cleanliness. How do you know if your new lubricant is clean enough?

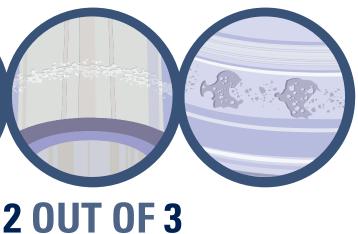
### A ROOT CAUSE OF EQUIPMENT FAILURE **Typical New Lubricant**

CONTAMINATIO



equipment is contamination.1

of lubricant-related failures in equipment is due to contamination.1



1 Source: Noria Corporation

equipment failures are attributed to abrasion, erosion or fatigue.

# **Dirt Particle** Bacteria 🤏 Human Hair

### Small contaminant particles that you can't see with the naked eye – particles 1 to 14 microns in size do the most damage. These clearance-size particles

IT'S WHAT YOU CAN'T SEE THAT'S

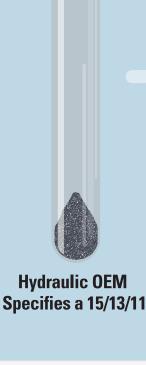
# enter the lubrication zone between machine parts

and generate damaging wear.

## An increase of just one ISO Cleanliness Code represents exponential growth of contaminant levels in the lubricant — and a significant increase in risk of equipment wear and failure.

**CONTAMINANT LEVELS** 

**CAN RISE QUICKLY.** 



**HOW DOES LUBRICANT** 



Contamination defects in lubricant can occur in several ways, including:



**GET CONTAMINATED?** 

**RAW MATERIALS** 

### Using oil that has no cleanliness specification. The oil might come in clean enough one day but dirtier than required the next.

Failing to manage the lubricant's

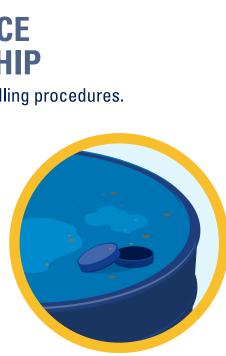
**OPERATIONAL** 

**DISCIPLINE** 



# Using poor product handling procedures.

**MATERIAL & STORAGE** Not following best-in-class storage practices.





**LubeWatch**®

DESIGN, BUILD, INSTALL

the environment for a length of time.

wear metals decline with the use of clean lubricants

and approved product handling methods.

Using components that contain contaminants left behind during the manufacturing process, have been stored on open shelves and/or have been exposed to



>10

## **EXTEND THE LIFE OF YOUR COMPONENTS**

benefits for the component and lubricant. The top benefit is increased component life. Life Extension Chart - Hydraulic Systems

Using clean oil that meets your equipment manufacturers' requirements provides multiple





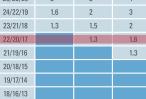


Chevron





Times Longer



**REQUEST A FREE NEW OIL ANALYSIS:** 

https://www.chevronlubricants.com/en\_us/modals/isoclean-free-oil-analysis-offer.html

17/15/12 16/14/11

>10 >10 >10