

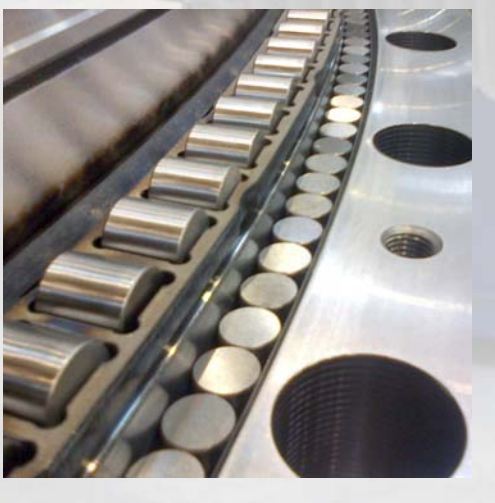
# CONDITION BEARING ANALYSIS

## WHY ANALYZE GREASE BEARING?

The main objective of Grease analysis is to know the health of the bearing (Condition Monitoring).

From this analysis it is possible to determine with great accuracy if the bearing needs maintenance and predict when it will be necessary.

On-line vibration and ultrasonic measurements may be added to complement the grease information.



# CONDITION BEARING ANALYSIS RESULTS



## HEALTH OF THE BEARING

Normal | Normal wear | Abnormal wear

## GREASE CONDITION

Normal | Oxidized | Contaminated

## SYSTEM CONTAMINATION

Pollution | Type of contaminants

## FREQUENCY OF LUBRICATION

Time needed for applying new grease

## AMOUNT OF GREASE REQUIRED

# TYPES OF ANALYSIS AND INTERPRETATION

ANALYSIS	Basic	Advanced	MEASURE
Wear Metals	●	●	Generation and concentration
Contamination metals	●	●	Contamination
Additivation metals greases	●	●	Additive depletion, contamination with other greases
FTIR	●	●	Oxidation, Status
PQI	●	●	Concentration of ferromagnetic particles
RULER®	●	●	Remanent life
Water	●	●	Concentration
Ferrography		●	Morphology of the wear particles
Electronic Microscopy		●	Particle composition
Rheometry		●	Fluidity and grease behavior
Ultrasonics		●	Anomalies detection/frequency and grease volumen
Vibrations		●	Anomalies detection/fault progression



## CONTACT:

IK4-TEKNIKER  
Jorge Alarcón  
jorge.alarcon@tekniker.es

RENOGEAR  
Joseba A. Iturbe  
jiturbe@renogear.net