

# Bearing inspection



Energy lives here™

► Getting the whole story on your bearings can help you make system adjustments that lead to higher productivity.

## Description

Our engineers inspect, report and document the condition of your critical plant bearings. They use inspection data to establish the optimum replacement criteria for bearings, and also identify any changes to maintenance practices. This service complements your existing condition-monitoring programs, such as oil analysis and vibration measurements, by correlating related data.

## Application

We work with you to:

- Schedule inspections to coincide with equipment outages or rebuilds
- Identify bearings that indicate problems
- Visually inspect critical elements – using a borescope when needed – and record observations through procedures
- Photograph components and communicate results
- Compare results with previous inspection and condition-monitoring program data
- Identify bearings that need periodic inspection

## Potential benefits



Minimized unscheduled downtime



Minimized maintenance labor costs



Minimized bearing replacements



Maximized productive capacity of equipment



Effective maintenance control



Enhanced safety and environmental practices

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**Deliverable:** The Engineering Service Report outlines the current condition of critical bearings, necessary corrective actions and improvements to operational or maintenance procedures. The report includes photographs, necessary supporting documents and value of service rendered to the customer.

## Common opportunity areas

- Optimum lubricants for the operation
- Abnormal operating temperatures
- Lubricant contamination
- Leakage in heat exchangers
- Bearing clearances that are too loose or too tight
- Overload
- Incorrect bearing
- Misalignment
- Desire to extend oil drain interval
- Filtration practices

## Safety, health and environment

Our field engineers are attuned to the hazards of handling, storing and using petroleum products, and strictly observe safety and environmental rules and ExxonMobil safety practices. They coordinate efforts through designated plant personnel – verifying electrical and mechanical lockout and proper tagging prior to working on equipment, and providing recommendations to help reduce hazards.

Industrial  
Lubricants



By helping you enhance equipment life and reliability – which minimizes maintenance costs and downtime – our expert services can help you achieve your safety, environmental care and productivity goals.