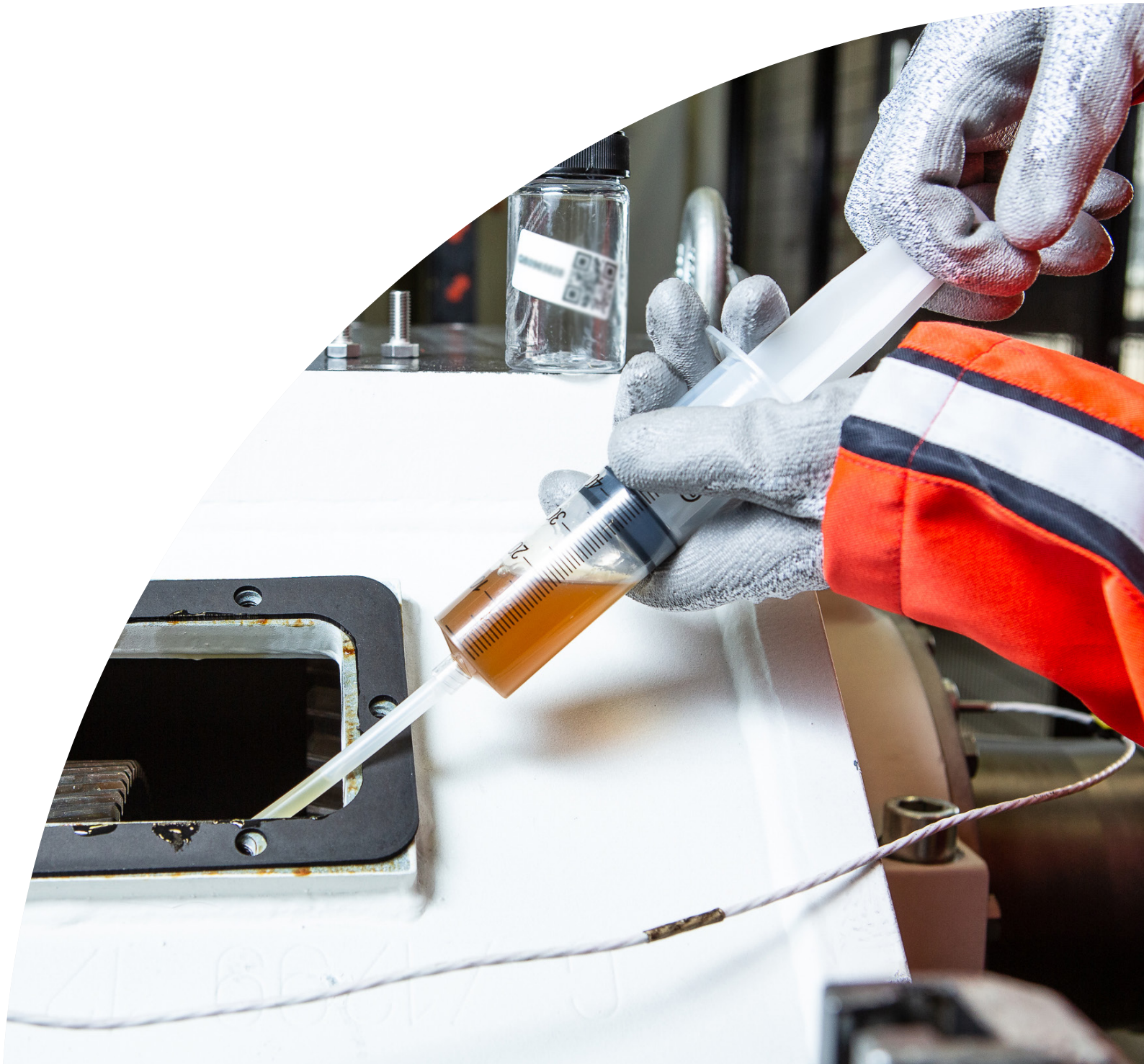


# Oil Analysis







# Detailed insights for optimal planning

An Oil Analysis can help you decide the optimal oil change timing for hoisting, traveling and traversing gears. Hydraulic oil can also be analyzed. The service can provide useful information regarding the condition of internal gear components. For example, oil oxidation or metallic particles in oil are potential symptoms of running problems.

An optimal oil change interval is affected by equipment usage and ambient conditions so a calendar-based interval may result in too many or too few oil changes.

An Oil Analysis performed on a regular schedule, such as annually, will show trends in oil quality. Trends in oil condition may reveal defects, such as slowly accumulated fatigue on gear teeth, which may be relevant in planning more thorough inspections, overhauls or replacements.

Oil Analysis is especially recommended for production-critical cranes and high-performance lifting gears that require cost-intensive oils or costly downtime. The service can easily be performed during any scheduled preventive maintenance visit and can be bundled with a service program such as the CARE Preventive/Predictive Maintenance program.

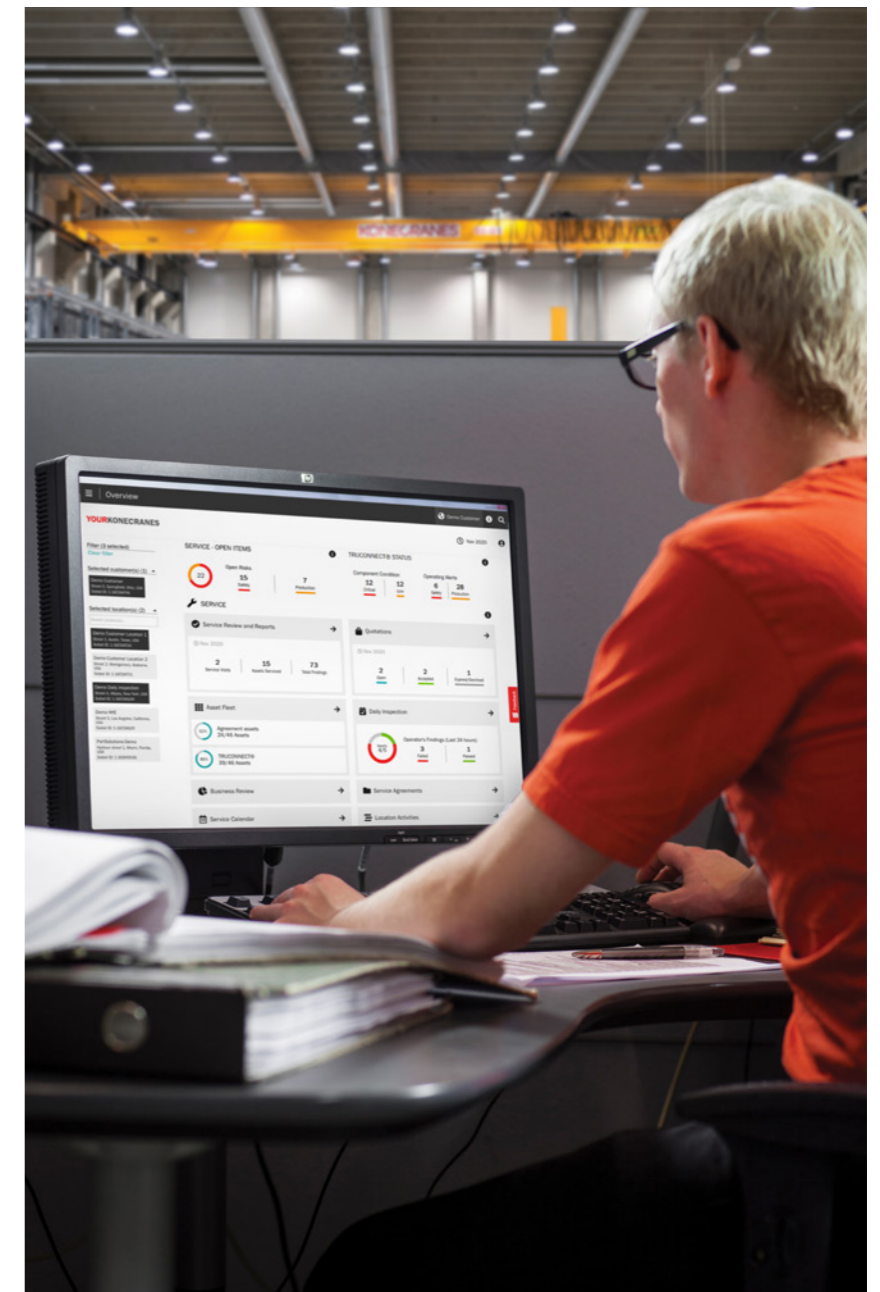
# Oil Analysis and predictive maintenance

Predictive maintenance utilizes condition monitoring, advanced inspections and data analytics to predict the need for maintenance due to component wear or fatigue. Incorporating predictive maintenance elements—like Oil Analysis—as part of a Konecranes service program can further optimize maintenance activities, reduce unplanned downtime and improve equipment safety, productivity and lifecycle value.

Recommendations to repair or replace components are driven by a combination of preventive and predictive maintenance activities. For example, oil condition trends combined with operational data from TRUCONNECT Remote Monitoring can be a good predictor of gear case failure.

These recommendations are shared throughout our customer consultation process and a detailed Oil Analysis report is made available on the Konecranes Portal. This gives you in-depth insights into the condition of the oil as well as the mechanical condition of your gears and bearings.

The Oil Analysis helps you plan—together with our experts—the optimal time for oil replacement, gearbox repairs, overhauls or future modernization needs of your equipment.




## ➔ Benefits of Oil Analysis

- Can help determine an oil change need for equipment with unknown previous oil change dates.
- Can help identify oil quality issues between scheduled oil changes.
- May reveal defects which can be relevant in planning maintenance actions.





Konecranes is a global leader in material handling solutions, serving a broad range of customers across multiple industries. We consistently set the industry benchmark, from everyday improvements to the breakthroughs at moments that matter most, because we know we can always find a safer, more productive and sustainable way. That's why, with around 16,600 professionals in over 50 countries, Konecranes is trusted every day to lift, handle and move what the world needs. In 2023, Group sales totaled EUR 4.0 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

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