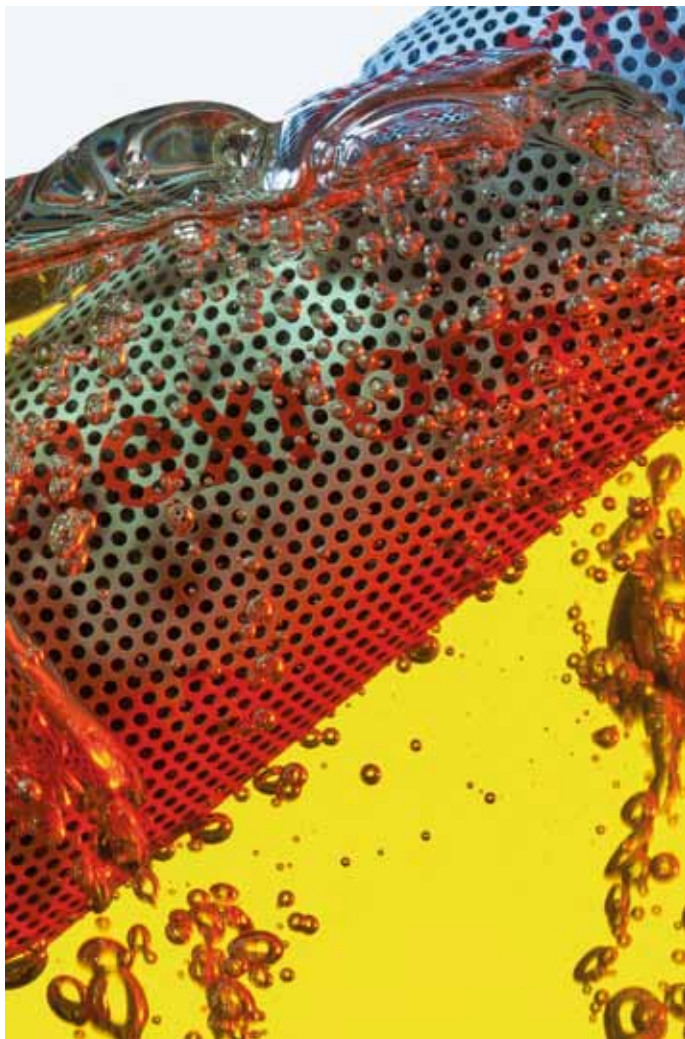


# Oil analysis



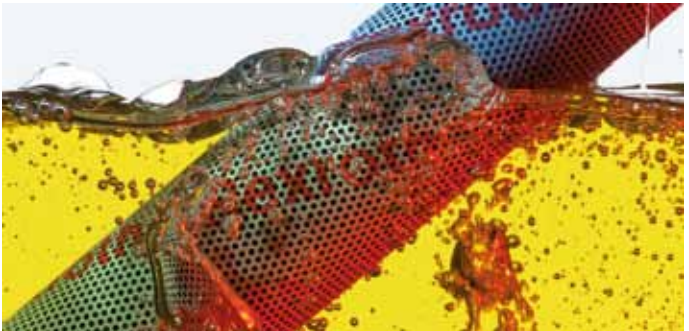
# Oil – High-capacity and full of power reserve by premature check

Oil is the central component of every hydraulic system. When a system fails, oil contamination is usually the cause. Oil is continuously changing. Wear, dirt particles and fluids contaminate it. High operating temperatures and contact with oxygen further accelerate the aging process.

Monitoring oil cleanliness and performing an oil analysis are two services from Bosch Rexroth that keep you up to date on the status of the operating medium so that you can avoid expensive repairs, downtime and unnecessary oil changes.

The oil analysis provides valuable information on the status of the equipment and makes it possible to determine the optimal time for changing the oil. Wear particles are linked to damaged machine parts, give clues regarding the situation in equipment and components and act as a timely indicator of potential future damage.

Continually extending oil change intervals reduces costs in the short term but increases the long-term risk of damage occurring as a result of poor lubrication. With Rexroth's timely oil analysis service, your oil retains its powerful protection characteristics and reserve capacity.



# Oil analysis sets – Economical, practical, and well engineered

The oil analysis sets make it possible to cleanly, quickly and easily take samples. The price also reflects the costs for the evaluation and analysis on the oil sample so that you can precisely determine the outlay required.

The scope of the investigation is clearly defined by the color of the cover.



**Black analysis set**



**Red analysis set**

## **Black analysis set – € 61,50**

- ▶ Wear metals: Iron, chrome, tin, aluminum, nickel, copper, lead, molybdenum, PQ index
- ▶ Additives: Calcium, magnesium, zinc, phosphor, barium, boron
- ▶ Contaminants: Silicon, potassium, natrium, water in %
- ▶ Oil condition: Viscosity measurement at 40° and 100° C, viscosity index, oxidation, appearance
- ▶ Particle count as per ISO 4406, SAE 4059

## **Red analysis set – € 102,50**

- ▶ KF water: Determination of water content in oil using the Karl Fischer method
- ▶ Neutralization count identifies the aging condition of the oil
- ▶ All investigations for the black analysis set are included in the red analysis set

# Oil analysis – Detailed laboratory reports

The data quantified is presented in a way that „non-experts“ can also understand. A detailed laboratory report is created that analyzes, weights and comments on more than 25 values.

One of our oil analysis experts assigns a green, yellow or red diagnostic indicator and provides a statement that characterizes wear, contaminants and continued use of the lubricant. The results of previous analyses, if available, are also listed next to the current values to facilitate the identification of trends.

## **Benefits of the detailed oil analysis laboratory reports**

- ▶ Obtain pertinent information about the status of your plants
- ▶ Determine the downtimes of your machines
- ▶ Discover potential future damage early on
- ▶ Avoid expensive repairs by having your oil analyzed on a regular basis
- ▶ Change your oil at the optimal time
- ▶ Help the environment by producing less waste oil



# Oil maintenance – Effective products and services

- ▶ VacuClean® oil maintenance system – Unit for conditioning and cleaning mineral-based hydraulic oil on the bypass.
- ▶ Off-line filter systems – Portable oil maintenance system, with 2 or 4 wheels.
- ▶ Fitness check – We'll check the status and performance of your equipment.
- ▶ Technical support for developing filter concepts.

You can purchase or rent the VacuClean® and off-line filter systems or have us carry out all of your oil maintenance services as part of a comprehensive service package.

- ▶ Filters – Reversible line, tank attachment, duplex filters, block mounting filters, filters for mobile hydraulics and processing systems.
- ▶ Filter elements – Made from paper, metal mesh, or high-performance glass-fiber media.

Our comprehensive product range of filters and filter elements can be found at:  
[www.boschrexroth.com/ics](http://www.boschrexroth.com/ics)

- ▶ Maintenance contracts – We'll make you a customized offer to economically ensure and improve your equipment availability.



**VacuClean® oil maintenance system**



**Off-line filter system**

The Drive & Control Company

**Rexroth**  
Bosch Group

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Subject to revisions!