Web-Seminar: Intelligent prevention of machine downtime
Connected Hydraulics

Simplify Your DESIGN

Streamline Your INSTALLATION

Minimize Your DOWNTIME

Maximize Your PRODUCTIVITY
CytroConnect
Your Use Case – Our Solution

Supported Maintenance
- “I want a Rexroth service expert to support me“

Smart Maintenance
- “I want to know what happens in the future“
- “I want to optimize my Maintenance Strategy“

Easy Diagnostics
- “I want to have most relevant indicators easy at hand“

ODiN

Predict Add-On

Maintain Add-On

CytroConnect Monitor

IoT-ready

Fewer Surprises. Greater Availability.

CytroConnect
Increase Uptime of Hydraulics #LikeABosch

Open Core Interface
Multi Ethernet
CytroConnect
Connected products

CytroBox

CytroForce

Hydraulic Systems

ABMAXX

... continues product extension
CytroConnect
Digital Service technical concept

Connectivity stack

4G

Broker

Device Mgmt.

Data Lake

Processing

Cloud Edge

Digital service

Physical product

Data Acquisition Unit

Streaming

Caching

Acquisition

Our Services

Monitor

Maintain

Predict

ODIN

Browser based User Interface

www.cytroconnect.com

reliable – scalable – secure – compliant

Hydraulic Drive System

Machinery Equipment

DC-9H/EPM1 | 20.01.2021
CytroConnect
Monitor package

Free of charge monitoring service
All current sensor data available
Historical data up to 24 hours

Your web based hydraulic dashboard
CytroConnect
Maintain package

Notification in case of unmanned shifts

** Warning **
Your CytroBox oil temperature is out of range. Please check the cooling water supply!

Oil Lifetime calculation

** Performance report **
The System has reached 5,000 hours of operation. Based on current usage, we recommend an oil change in 4 weeks.

Free of charge monitoring service
All current sensor data available
Full access to historical data
Data export (via API)
Rules-based Analysis of Components
Direct Notifications and Warnings
Performance and Usage Reports

Your digital Maintenance manual
CytroConnect
Predict package

**Predictive maintenance planning based on Machine Learning**

Free of charge monitoring service
All current sensor data available
Full access to historical data
Data export (via API)
Rules-based Analysis of Components
Direct Notifications and Warnings
Performance and Usage Reports
Machine learning algorithm
Predictive maintenance planning
Forecast for spare parts requirements

Your forward-looking Maintenance tool

- Trained oil level algorithm
- **Estimated Remaining time**
  - Small leakage detected, service in 10 days.
  - High leakage detected, stop your production.
CytroConnect

ODiN

With ODiN Predictive Analytics Services unplanned downtime is a thing of the past!

Know today what to expect tomorrow!

…and react in time!

The ODiN Predictive Analytics Service includes:

- Daily monitoring Mo-Fr
- Quarterly status report
- Expert report in case of impending failure + recommendation for action
- Provision of user account
- Operation User Interface & Cloud incl. updates of hard – and software
- Validation Learning phase
- Data volume of SIM card
- Time saving due to shortened troubleshooting
CytroConnect
Maintain package – Success story @ Customer

Detection of slow system leakage

**Warning**
Your CytroBox oil level is leaving recommended operation range.

Free of charge monitoring service
All current sensor data available
Full access to historical data
Data export (via API)
Rules-based Analysis of Components
Direct Notifications and Warnings
Performance and Usage Reports
CytroConnect
Predict package – Success story @ Customer

Detection of damaged pump

Free of charge monitoring service
All current sensor data available
Full access to historical data
Data export (via API)
Rules-based Analysis of Components
Direct Notifications and Warnings
Performance and Usage Reports
Machine learning algorithm
Predictive maintenance planning
Forecast for spare parts requirements

** Forecast **
Possible pump failure in 10 days detected.

** Warning **
Less than one day until pump failure!

** Alert **
To avoid major damage, stop immediately!

** Forecast **
Possible pump failure in 10 days detected.

** Warning **
Less than one day until pump failure!

** Alert **
To avoid major damage, stop immediately!
CytroConnect
Maintain package – Success story @ Customer

Energy consumption optimization

- Free of charge monitoring service
- All current sensor data available
- Full access to historical data
- Data export (via API)
- Rules-based Analysis of Components
- Direct Notifications and Warnings
- Performance and Usage Reports

**Active cooling**

Oil Temperature: 28 °C

**Inactive cooling**

Oil Temperature: 55 °C

**Yearly savings:**
- 7.2 M liters cooling water*
- 1 200 KWh
- 480 kg CO2**

... or:

- ~ 3 x Olympic pool fill
- ~ 8 000 km electrical driven
- \( \rightarrow 8 \times \text{Berlin to Paris} \)

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*CytroBox cooling water supply = 20 l/min; 250 working days
**401 g/KWh (Germany) www.umweltbundesamt.de
CytroConnect

The digital service for Industrial Hydraulics.

More information

Contact us directly
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Blogposts & Videos

Hydraulics meets Internet of Things
www.CytroConnect.com