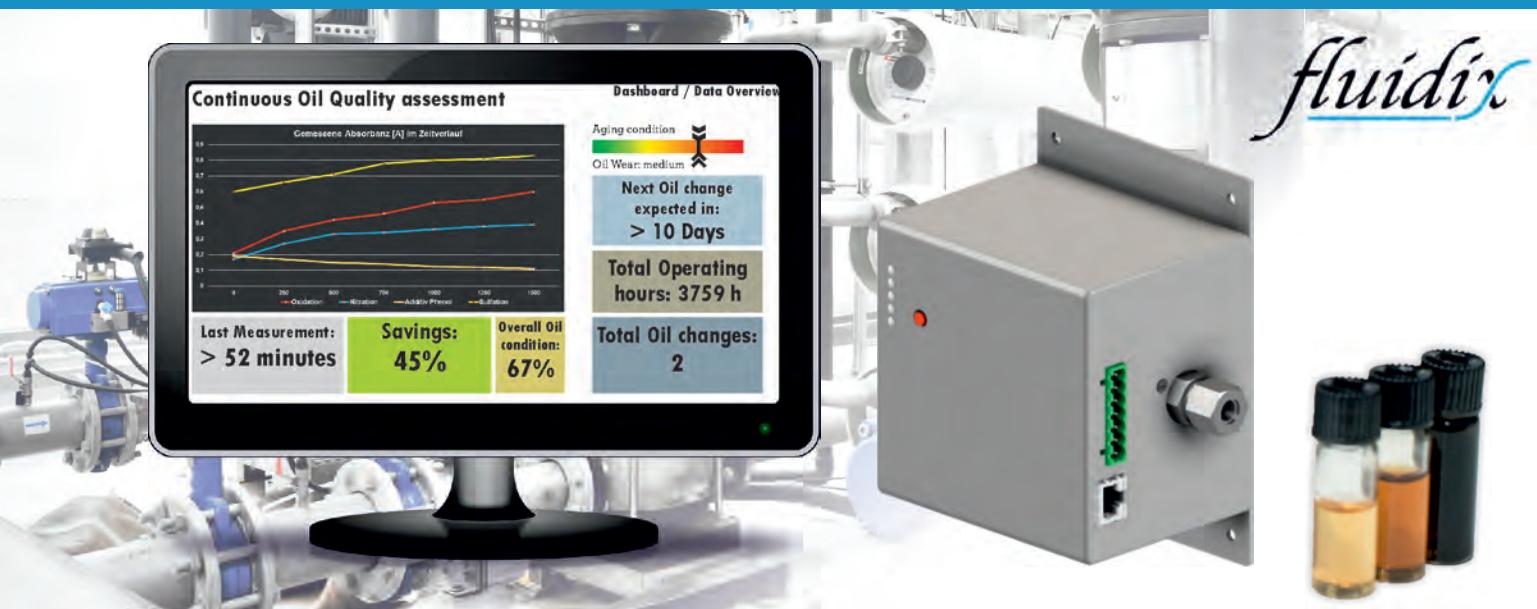


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REAL TIME LUBRICANT ANALYTICS

The smart solution to cut machine maintenance cost and to reduce waste of fossil lubricants by 20%.



CONDITIONING LONG LIFE

We believe in continuous measurement of fluid quality and fluid conditions to extend machine life as well as to improve personnel and environmental protection.



ABOUT ZILA GMBH

- Founded in 1992
- Headquarter in Suhl / State of Thuringia
- Experts in design and manufacturing of industrial automation products
- World wide customer base
- Close partnerships with universities and research institutes in Europe



We are manufacturing fluid measurement and control devices



pressure switch



temperature & humidity probes



ventilation controller



cut-out device



CAN Bus Sensors



pressure transmitter



gas sensor
(CO2, Propane, Methane)



overfill protection
and leakage detection

Increase Energy Efficiency
Maximize Machine & Personnel Protection
Improve Quality of Life

CONDITIONING LONG LIFE
 ZILA

Fields of Application & Examples



- ✓ CAN based temperature and humidity probe in mobile machinery
- ✓ pressure transmitter to control hydraulic oil pressure for excavator
- ✓ immersible magnetic probe for tank level control

- ✓ capacitance point level detection for waste water treatment plant
- ✓ dew point temperature probe for continuous monitoring in clean room
- ✓ pressure transmitter and leak detection in photovoltaic systems



- ✓ inline lubricant oil condition monitoring device used in CHP power station
- ✓ differential pressure transmitter for filter monitoring in exhaust systems
- ✓ turbidity transmitter in process water

- ✓ overall cut out and level measurement in hazardous locations
- ✓ CO2 and methane detector for tunnel monitoring
- ✓ electronic pressure cut off switch for steam boiler



Benefits of Inline Oil Condition Monitoring

The Oil condition in machines is a health indicator like blood in humans.



Without permanent oil condition monitoring

- ↓ lack of oil condition status, because of delayed feedback from oil lab and risk of contaminated oil samples
- ↓ high operational costs driven by unscheduled corrective maintenance, unexpected machine damages as well as yield losses
- ↓ risk of fire and oil spill
- ↓ waste of mineral resources resulted by a time based oil change

Time consuming

Difficult machine access

No continuous control

Benefits of Fluidix Lub-6

- ↑ real time oil condition monitoring
- ↑ remote access by experts - 24/7
- ↑ cost saving with a well tuned machine running at operation optimum
- ↑ oil change when needed
- ↑ predictive maintenance and adaptive service planning

more cost and time efficient maintenance

damage prevention to machines and environment

Operators, manufacturers and maintenance companies are highly interested in live data about the lubricant

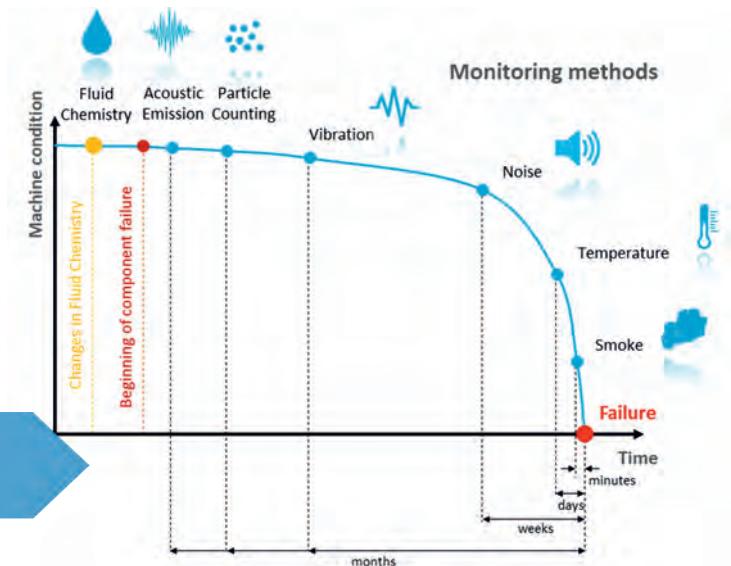


Introducing Fluidix Lub-6

Turn your resource intensive time-based oil changes into a condition based approach.



Continuous measurement and calculation of key oil condition information from start



Live data 24/7.
operate with optimum
lubricant quality, detect and
avoid system failures.



Predictive maintenance.
leverage the permanent
lubricant oil quality monitoring
with change and event reporting



Need based oil exchange.
maximize lubricant oil usage
and reduce consumption by
up to 20%.



Minimized oil samples
for lab assessment.
Oil change when
needed.



Optical measurement
principle.
Detects up to six
measurands.



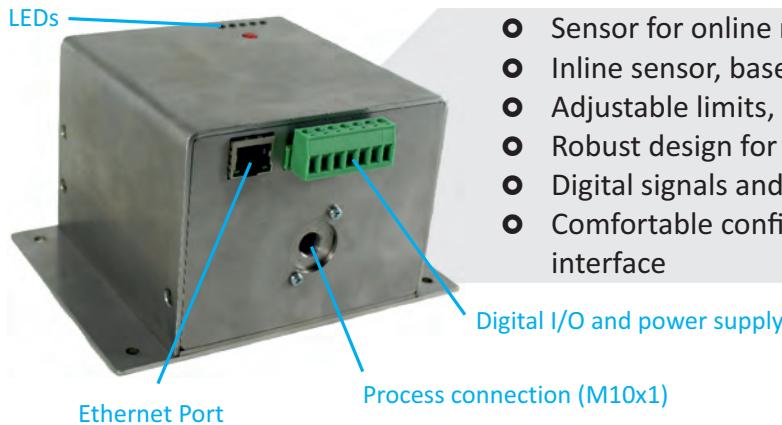
Operates as an early
warning system and
extends the machine
lifecycle.



High quality electronic
components and robust
housing.



Fluidix Lub-6 in depth



- Sensor for online monitoring of the oil condition (oil chemistry)
- Inline sensor, based on a multichannel infrared measuring cell
- Adjustable limits, according to the oil parameters
- Robust design for mounting on machines and facilities
- Digital signals and Ethernet interface for direct connection
- Comfortable configuration and diagnosis via graphical user interface

Technical Data

- Robust system design completely made of stainless steel
- Operating voltage: 18 ... 36V DC
- Dimensions: 150 x 109 x 85 mm (L x W x H)
- Operating temperature 0 ... + 70 ° C
- Maximum operating pressure: 30 bar
- Storage temperature -40 ... + 85 ° C

Measurands

- oxidation
- nitration
- sulfation
- water content
- TAN
- TBN
- additive content

Software and Configuration Tool

Real Time Configuration and Oil Condition data for service on demand



Fluidix Lub-6 will complete a well-targeted predictive maintenance strategy with sophisticated oil condition information.



SAVE TIME, COSTS AND FOSSIL LUBRICANTS.