

Hannover Messe 2018: New feature of the LiView intelligent position transducer for hydraulic cylinders

- Reliable fault diagnosis
- Support of UDS communication protocol
- Increase in machine efficiency

Nussbaumen (Switzerland), 4. April 2018 – Liebherr presents condition monitoring for its intelligent position transducer LiView. The fault detection system with diagnosis function allows for reduced machine downtime and increased efficiency in the field.

The intelligent position transducer LiView by Liebherr determines piston position and speed of all hydraulic cylinders precisely. It is now equipped with a new function enabling detailed condition monitoring. LiView determines relevant data independently and uses it to create a reliable fault diagnosis.

Reliable fault detection and transmission

Thanks to its permanent self-monitoring, LiView is able to determine its current state by means of parameters and to compare it to the optimum state. Thus, the system detects occurring faults reliably, such as undervoltage or a defective probe. LiView is equipped with an intern fault memory. There, the system saves faults that have already been diagnosed. The content of this memory is transmitted via the standardised diagnostic communication protocol UDS (Unified Diagnostic Services). This protocol is specified in the automotive standard ISO 14229. The fault memory can easily be read out with a standard off-board diagnostic tool. If the OEM does not want to use an existing diagnostic tool to read out the fault memory, Liebherr provides an appropriate software tool.

Ready for operation more quickly

For the customer, LiView allows a detailed diagnosis of system faults – for the first time as far as the sensor level. As LiView already detects the cause of the fault, the OEM does not have to conduct any complex and expensive fault analysis. This simplifies and

accelerates the implementation of appropriate countermeasures. Thereby, long mobile machinery downtime can be avoided and efficiency can be increased.

Cylinder manufacturers also benefit from this condition monitoring. As soon as the intelligent position transducer is integrated into the cylinder, condition monitoring can check the good functioning.

For the first time, Liebherr is presenting the new function of the intelligent position transducer LiView at Hannover Messe in April 2018 (hall 23, stand B48).

Caption

liebherr-liview-condition-monitoring.jpg

LiView: condition monitoring with diagnosis allows for fast troubleshooting

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