Condition monitoring system for bogie testing

Condition monitoring is a mature technology, offering new capabilities to increase safety and reliability as well as to extend maintenance intervals. Using condition detection systems and applying sophisticated algorithms for data processing, can detect incipient damage.

Customer benefits
- reduction of operational cost by early damage detection
- applied condition based maintenance saves around 50% bogie maintenance cost
- optimized scheduling of maintenance
- reduction of vehicle standstills
- reduced need for maintenance
- reduction of maintenance overtime work
SKF condition monitoring system for dynamic bogie testing

The system enables workshop personnel to investigate rotating bogie component conditions without dismounting. Typical components are wheels, bearings, cardan shafts, gear wheels etc.

The results of the condition monitoring also permit to decide whether any additional maintenance is needed.

The customized SKF condition monitoring system is applied for DANOBAT bogie testing equipment. The equipment is used by railway workshops to evaluate the total bogie condition.

DANOBAT bogie testing equipment, incorporating an SKF condition monitoring system
Image: DANOBAT

Wheel roundness

Axlebox bearing vibration measurement
Detection of bearing damage
Insert: bearing outer ring with spalls