

Timken® StatusCheck® System Pays Off for Toyota

TIMKEN

Where You Turn

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Customer

Toyota Manufacturing
Motor Company
Georgetown, Ky., U.S.A.

Market

Automotive

Application

Paint Oven Circulating Fan

The Timken Advantage

The Timken® StatusCheck® wireless condition monitoring system assists users in maximizing equipment uptime by:

- Detecting and monitoring excessive temperature and vibration
- Reporting increases in real time
- Allowing users to take corrective action before machine failure occurs

Toyota Motor Manufacturing Kentucky is among a growing number of users that have documented cost savings and a reduction in downtime with the Timken® StatusCheck® condition monitoring system.

The StatusCheck system is a wireless system designed to monitor bearing operating conditions and issue alerts when it detects excessive levels of temperature and vibration. This system is a cost-effective method that reports potential faults immediately, providing users with an opportunity to identify potential problems and avert costly repairs.

Maintenance personnel in the Toyota plastics department in Georgetown, Ky., use Timken StatusCheck to complement their existing predictive vibration analysis program. In one incident, “project team members conducted our standard checks and identified a defect in the outer race of a fan bearing,” says Rick Heifner, oil and vibration analyst in the Georgetown facility department. “We placed a StatusCheck unit on the equipment. Due to the critical nature of the particular machine, we decided to continuously monitor the bearing with the use of the Timken StatusCheck transmitter. The StatusCheck system then alerted us that a significant change had occurred in the condition of the bearing. We replaced the bearing and averted a serious problem that would have caused 16 hours of downtime. Because we acted quickly, the bearing did not damage the shaft and we saved the expense of replacing it.”

Timken developed StatusCheck as part of its complete predictive maintenance program, which focuses on increasing efficiency in plant operations. Customers in the mining, power generation, metal rolling and general manufacturing industries have reported cost savings ranging from tens of thousands to millions of dollars and increased efficiency in their operations.

“The StatusCheck system’s advanced technology offers plant and maintenance personnel another tool to help prevent costly, unplanned downtime,” says Daniel Szoch, Timken manager – sales and marketing – reliability solutions. “Many customers have realized a rapid return on their initial investment and have expanded their systems to include numerous StatusCheck units. The cost savings for one major manufacturer exceeded \$2 million.”

StatusCheck can be mounted via an internal magnet or by a threaded adaptor. Its rugged construction makes it ideally suited for use in harsh environments. Its integrated software allows for notification of alarms via computer or cell phone text messages.

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Precision Components • Lubrication •
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