



BEARING, MOTOR, AND DRIVE INSPECTION

THERMAL IMAGING INSPECTIONS ENHANCE RELIABILITY OF MECHANICAL EQUIPMENT

THE CUSTOMER'S CHALLENGE

Automotive manufacturing requires an enormous amount of mechanical equipment to drive production – creating the risk for a lot to go wrong. Common problems that occur include bearing deterioration in gearboxes (scuffing, micro-pitting, and tooth-root breakage), shaft misalignment, and oil overheating. Ensuring that mechanical assets and their components work as needed is critical for any auto manufacturer. Unexpected mechanical equipment failures can range in severity from minor to catastrophic. When asset failures impact production output, it can be incredibly costly.

THE SOLUTIONS

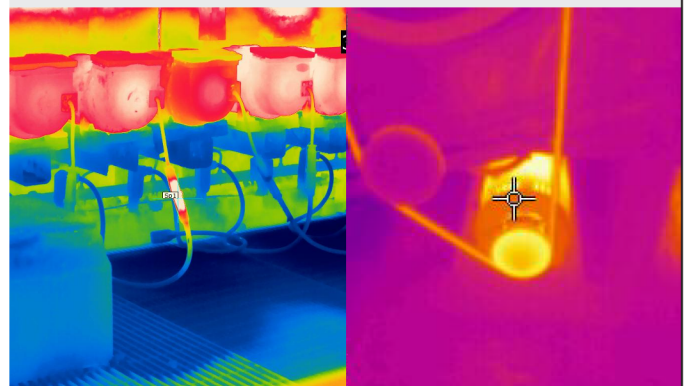
Bearings, motors, and drives generally overheat before they fail. That's why routine mechanical asset inspections using thermal imaging technology is key to ensure productive and profitable operation of automotive manufacturing facilities. An infrared (IR) camera, such as the FLIR E8-XT, is an essential tool for detecting when a gearbox is running hotter than normal, or hotter than gearboxes performing similar work in similar environments. If you prefer a continuous monitoring solution, the FLIR AX8 thermal sensor provides 24/7 coverage. A vibration meter such as the Extech SDL800 can be used in combination with thermal imaging to achieve optimal uptime.

THE RESULTS

Through routine thermal inspections, maintenance professionals can detect early signs of asset and component failures. Regular comparative thermography gives you the ability to compare operating temperatures to like equipment, manufacturers standards, and historical inspections, providing insights into the current health and reliability of an asset. This allows maintenance managers and operators to plan downtime and repairs, avoid health and safety issues, and ensure optimal plant operation.



Routine inspections are a critical part of operational efficiency.



Common issues become visible in seconds with thermal imaging.



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