



CATCH OF THE WEEK

High exhaust temperatures and low boost pressure detected on mining haul truck



Customer Success Story from
GE's Industrial Performance & Reliability Center

What did GE's analytics software find?

Between February and April, the Mine Performance solution detected that exhaust temperatures on a haul truck at a mine trended upward from 1101°F to 1245°F (594°C to 674°C). This change coincided with a downward trend of the turbocharger compression ratio from 3.5 to 3.0. GE's [Industrial Performance & Reliability Center](#) (Industrial PRC) notified the customer, continued to monitor, and discussed these changes on the regular weekly calls.

FOR MORE
STORIES
SIGN UP

What was the underlying cause?

In late April, the customer brought the truck into the shop and learned that an air cleaner had not been replaced as needed during a previous maintenance activity, causing the cleaner to be used long past its functional life. Upon replacement of the air cleaner, the exhaust temperatures and compression ratio returned to normal.

What was the value to the customer?

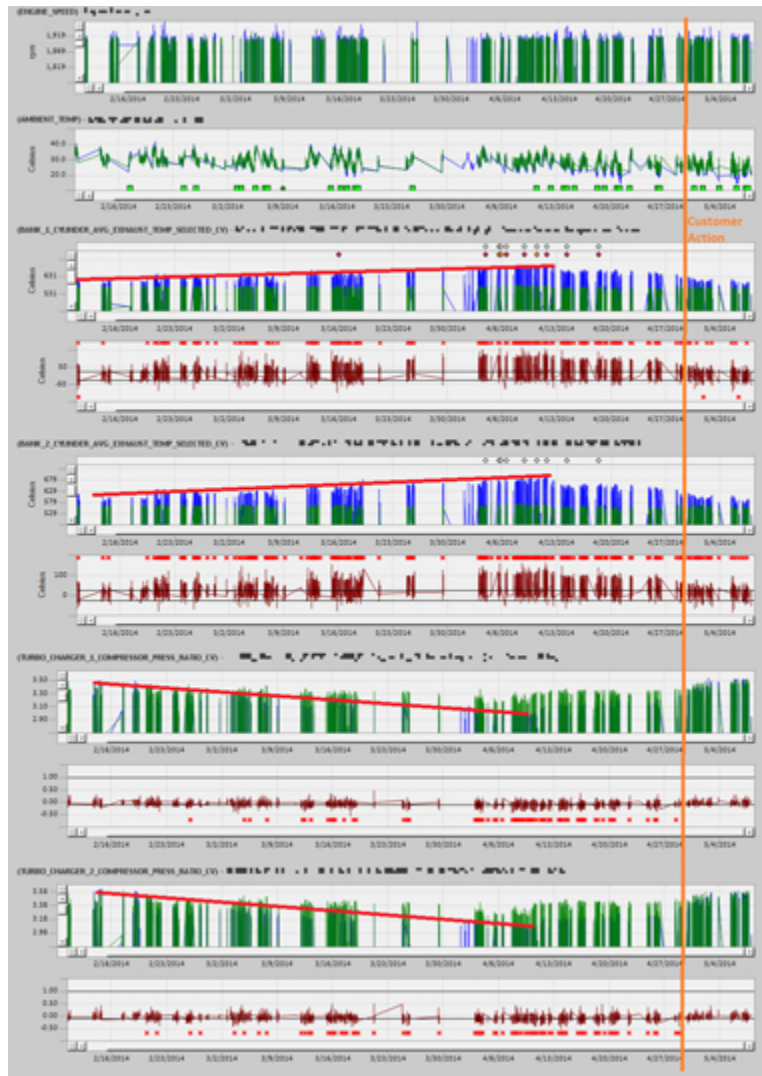
The exhausted air cleaner was preventing proper airflow to the combustion cylinders, which was in turn causing excessive temperatures in the engine. High engine temperatures were causing excessive wear on the engine and could have led to a catastrophic failure. Early notification allowed the customer to address this issue and prevent further excessive wear or failure.

MEET GE'S EXPERTS

WHAT THEY SAW



Jim Hill
Customer Reliability Engineer



Between February and April, the exhaust temperatures were increasing and the compression ratio was decreasing. In late April, after the air cleaner was replaced, the temperatures and ratio returned to normal.

GE's Industrial Performance & Reliability Center, using Mine Performance, from Predictivity, provides comprehensive predictive monitoring across all critical rotating and non-rotating equipment plus key balance-of-plant equipment. The Catch of the Week highlights some of the critical catches detected every day.

Real customers, real stories.

What if you have small, undetected issues that might lead to big problems? We can help you find out.

[CONTACT ME](#)