

# FLASHPOINTS

DATA-DRIVEN SOLUTIONS THAT IGNITE CUSTOMER SUCCESS.



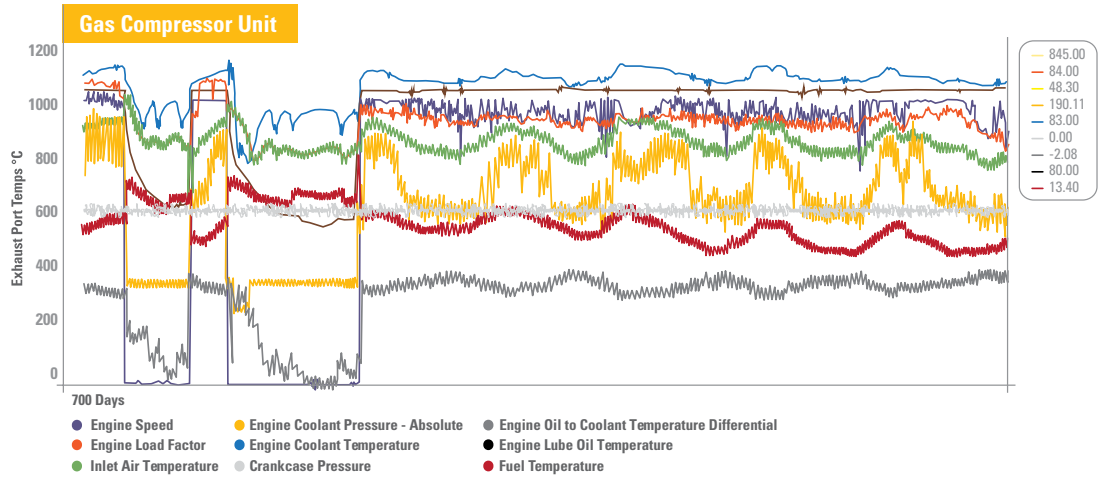
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## COOLING ISSUE DETECTED & RESOLVED BEFORE FAILURE

### What happened?

A Cat® Fleet Advisor monitoring a gas compressor package noted that the system was overheating. A review of the data indicated that:

- The Intake Manifold Air Temperature (IMAT) was high during hotter parts of the day
- The engine jacket water temperature was floating with ambient temperature, rather than remaining steady as an outlet-controlled system should have been behaving
- Varying cooling pressures at the thermostat confirmed it was operating effectively



This combination of conditions led the Fleet Advisor to suspect a problem with the Air Cooled Heat Exchanger (ACHE). The customer was notified about the issue and confirmed that the ACHE had been marginally sized.

### What was the underlying cause?

The combination of a marginally sized ACHE and high ambient temperatures was causing excessive coolant temperatures.

### What was the value to the customer?

With knowledge of the situation, the customer was able to prevent an unplanned outage by reducing engine load during the work cycle and adding cooling capacity during a normal maintenance window. Taking these corrective actions allowed the customer to prevent accelerated engine wear and avoid unplanned downtime, which would have cost an estimated \$2,200 per hour.

## CAT® CONNECT

