



OPTIMIZING ENGINE PERFORMANCE

Fairbanks Morse utilizes Engine Analysis to troubleshoot and diagnose engine problems before they require costly maintenance or repair

We provide the expertise to analyze the data and provide the necessary recommendations to improve performance or pinpoint potential failure modes—and not just for Fairbanks Morse engines. Engine Analysis programs are available for many makes of diesel and natural gas engines and most driven equipment.

Features & Benefits

With real-time and historical data logging, the engine can be protected from unsafe operating conditions and symptoms of degradation can be detected through trending analysis.

Engine Diagnostics

Our diagnostic software displays cylinder pressure traces and vibration measurements simultaneously so that any anomaly occurring during the combustion cycle can be detected. This gives us the ability to “see” events as they occur in the engine while it is running and investigate all possible sources until the cause is determined and resolved.

Features & Benefits

- Balance the engine for peak efficiency
- Detect worn components that keep the engine from peak performance
- Reduce fuel consumption
- Utilize performance trends to better plan component overhauls
- Identify small problems before they become a major capital expenditure

Fairbanks Morse can measure and analyze the following data in real time:

- Dynamic cylinder pressure curve characteristics - recorded over a duration of 100 cycles
- Low- and high-frequency vibrations from the cylinders, fuel injection lines, fuel pumps, turbo casings, and the engine block using accelerometers and ultrasonic microphones
- Firing Pressure vs. Time overlaid with Vibration vs. Time curves
- External component temperatures using an infrared device
- Conditions, temperatures, and pressures of the support systems

A visual and numerical picture of engine health can be gained by plotting the above data. By analyzing the vibration, ultrasonic, and pressure plots, we can make intelligent decisions about servicing and maintaining your equipment. We will identify and correct any problems, and promise not to leave the site until you understand our report and findings

Schedule an engine analysis appointment today

Contact us for more information:
<https://www.fairbanksmorsedefense.com/contact>
1-800-356-6955

FAIRBANKS MORSE
DEFENSE