

## RECIPROCATING ENGINE / COMPRESSOR ANALYSIS

Engine and compressor analysis is used to diagnose the presence of mechanical problems to avoid catastrophic failure and allow repairs to be effected on a scheduled basis. Additionally, fuel savings achieved by properly balancing engines and by replacing leaking compressor valves routinely saves enough in fuel and electricity costs to pay for a subscription-based analysis program.

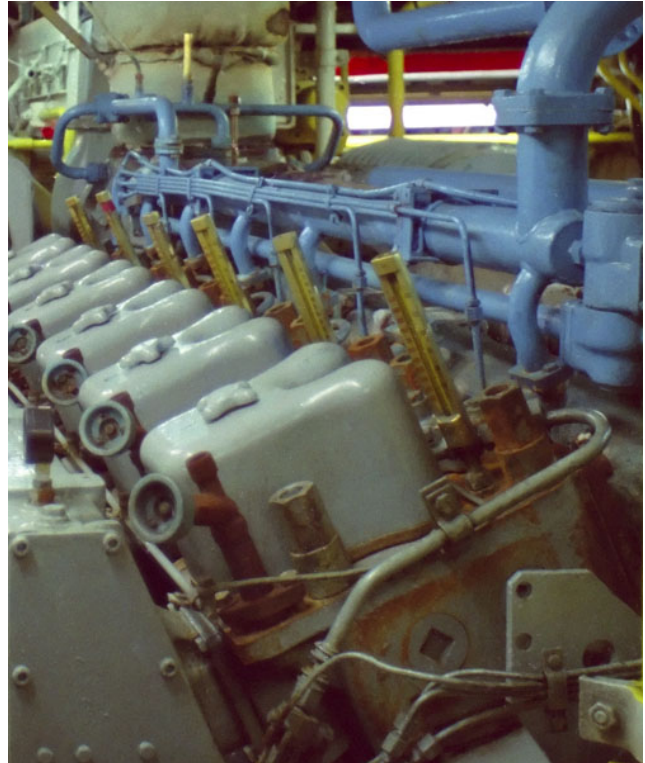
Azima DLI's reciprocating engine and compressor analysis provides predictive, condition-based maintenance for stationary engines and reciprocating compressors.

- Increases machine efficiency and uptime
- Reduces the overall cost of machine operation
- Improves your plant's operating performance and maximizes profits

Our services in this area may be broken down into two main components; electronic engine/compressor analysis (ECA) and B-Probe inspections:

### ELECTRONIC ENGINE / COMPRESSOR ANALYSIS

Electronic engine/compressor analysis is accomplished using real-time multi-channel analyzers and data collectors, along with sophisticated software to provide condition assessment and fault detection as well as key performance measures on reciprocating engines and compressors. ECA is performed with compressors



loaded and in-service, without any downtime. Equipment hardware and preparation requirements for analysis are minimal.

### B-PROBE INSPECTIONS

B-Probe inspections are designed for gas and diesel generator/pump engines and can be performed on integral and separable compressor units. Although B-Probe inspections require engine shutdown, this is a minimally intrusive procedure that usually involves two or three hours of downtime.

B-probe inspections allows targeted machine repairs, without the need to disturb well-bedded internal components, as well helps you avoid introducing contaminants into the internal oil-wetted parts..

## WHY AZIMA DLI?

Azima DLI's Recip Analysis team is comprised of full-time, on-staff experts who have been providing reliable reciprocating engine / compressor analysis for years on low-speed integral engines as well as high-speed separable units, both onshore and offshore. Our experts provide detailed and meaningful reports that cover:

- Cylinder pressure vs. crankangle
- Cylinder pressure vs. volume
- Vibration vs. crankangle
- Ultrasonic energy vs. crankangle
- Cylinder displacement
- Ignition analysis
- Power cylinder balancing
- Engine & Compressor Health Reports

## EXPERT DIAGNOSTIC TEAM

We are multi-disciplinary experts in Vibration, Oil Analysis, Infrared Thermography, Motor / Battery testing, Reciprocating Engine / Compressor Analysis (REA).

- 40+ Expert Analysts
- 8 Licensed Professional Engineers

## CUSTOMER BENEFITS

- Sustainable condition monitoring programs with high ROI
- More cost-effective than in-house program
- Puts the industry's leading experts at customer's fingertips
- Focuses attention on urgent problems
- Provides actionable advice to the customer
- All information easily accessible via WATCHMAN Reliability Portal™
- No hardware purchase required

## CALL US TODAY!

Azima DLI is transforming how companies perform maintenance, and we can help you too. To learn more about how WATCHMAN™ can deliver outstanding value to your company through our subscription based, web delivered condition monitoring services, contact us at toll free in the U.S. at 800.482.2290 or international at (+1) 781.938.0707, or visit us online at [www.AzimaDLI.com](http://www.AzimaDLI.com).

**KNOWING WHATS AHEAD™**