



Integral gas engine and compressor.

Delivering a Cleaner Environment: Exhaust Gas Testing, Ignition System Tuning and Mechanical Field Service Work from the Same On-Site Service Team

Sulzer Enpro was asked by a major oil and chemical company to assess the current emission levels from their natural gas fuelled reciprocating engines and to make recommendations to meet the new and stricter state regulations in the US state of Texas.

Sulzer Enpro trained technicians, using the Testo 350 portable gas analyzer, tested and determined that the current emission levels would not meet the new lower state emission regulations. In order to comply with the new standards, major modifications would need to be made to their existing equipment.

The lean burn natural gas engines needed to be converted to rich burn units and retrofitted with new Altronic air/fuel controls, Altronic crank referenced ignitions and Johnson-Matthey catalytic converters (all products for which Sulzer Enpro is the foremost USA distributor) in order to meet these requirements. It was also determined that control room monitoring and

communications would be required; this was accomplished by incorporating the Altronic DE-2200 digital annunciator. After the changes were made the company was able to easily meet the state requirements and greatly improve the reliability of their engines.



Altronic Air/Fuel Ration Control Panel with vibration monitor and CPU-95 display.

As a result of Sulzer Enpro's performance, they were asked to provide quarterly emissions testing in their chemical plant. This has subsequently expanded to include diesel engine testing at their chemical, refining and olefins facilities.

Quarterly testing by trained technicians enabled Sulzer Enpro to pinpoint periodic engine problems. As a result, Sulzer Enpro was asked to address the technical issues with our field service group. Sulzer Enpro put together a comprehensive preventative maintenance program, including top end services and major overhauls as well as emergency service. The plan was accepted by the customer and has been a major success. Sulzer Enpro is a major distributor for Testo emission analyzing equipment, Altronic ignition and control systems and Johnson-Matthey catalytic converters, amongst several other leading brand ancillary products for reciprocating and rotating equipment.

*J. C. Richardson
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