

Atlas Copco Oiltronix™

Longer lasting air-ends, lower operating temperature



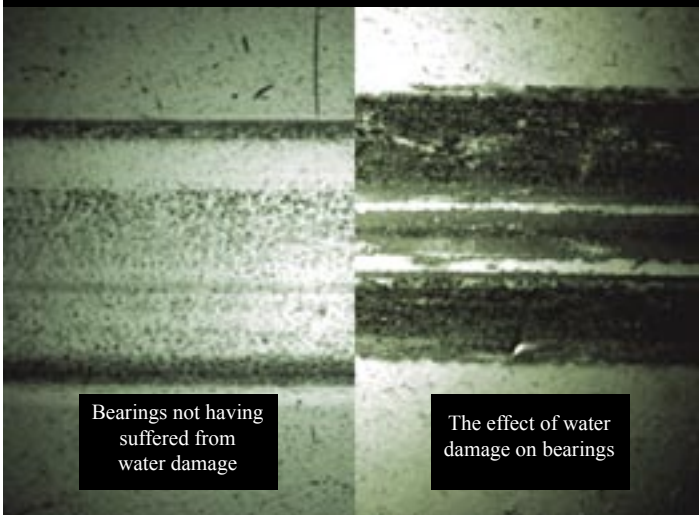
Oil temperature control extending life of components

Atlas Copco has always been aware that compressors are extremely sensitive to condensation in compressed air. We know for example, that just 1% of water in the oil reduces the lifetime of the bearings by 40%.

The electronic controlled oil temperature system extends the lifetime of air-ends, compressor components, oil and the oil-separator. Additionally, and not insignificantly – it reduces the average oil temperature, prevents overheating and increases safety.

Atlas Copco

Condensation reduces the lifetime of the bearings



A technology solution

Advanced electronics control the compressor regulating and oil systems to maintain the oil injection temperature at its most optimal point. Additional sensors have been added to the existing control monitor to measure ambient temperature and relative humidity. A logarithm uses these parameters on ambient conditions and compressor data to define the optimal oil injection temperature. The output is sent to a stepper motor that positions the valve accordingly. The results? The average oil injection temperature is kept to about 167°F instead of the usual average 221°F of a conventional system.

No condensation anymore



Very hot/humid regions: to avoid the necessity of daily draining, Oiltronix should be installed on all units above 294 psi

Water is the scourge of bearings

Water caused by condensation is known to have a harmful effect on compressor components and oil, entailing high service and replacement costs. For many of our compressor customers, it has become common practice to drain their units every day.

Condensation occurs whenever air is compressed at high pressure and high humidity. In a conventional system, a thermostat always keeps the oil temperature very high, independent from working conditions and the environment. This is higher than necessary when it is colder outside, but not high enough when it's hot or humid. The result? A higher than average oil temperature that leads to condensation in the oil, and a reduction in the lifetime of the bearings.

Lower oil temperatures - longer lifetime



Hot/humid regions: in these regions we advice to install Oiltronix on all units above 365 psi

Oiltronix, the benefits

- Better reliability
- Higher efficiency
- Better for the environment
- Lower cost of ownership
 - longer life of the air-ends
 - longer life of the oil
 - longer life of the oil separator
 - longer life of the other compressor components
 - no draining, less down time