



Case Study

Lion Breweries NZ – The Pride Atlas Copco Air Compressors x 4 - Multilec® Industrial Oil LE6803

- **\$71,000 saved in replacement oil costs by eliminating oil changes**
- **Extended oil drain intervals up to 8 X OEM recommended drain intervals**
- **No downtime, labour and maintenance costs doing oil changes**
- **Environmental Impact reduced eliminating 1,035 Litres of waste oil**
- **Protected equipment extending asset life**



Nature of business: Lion is New Zealand's largest alcohol beverage company. Their focus is on the production, marketing, sales and distribution of beer, wine, spirits, cider and RTD products, as well as a range of non-alcohol beverages.

Challenge:

Extend drain intervals and asset life by reducing component wear, also reducing energy consumption.

OEM recommended drain interval is every 8000 hours per unit.

Application:

#1 Atlas Copco ZT90 air compressor – 60 Litre reservoir

#2 Atlas Copco ZT255 air compressor – 35 Litre reservoir

#3 Atlas Copco ZT255 air compressor – 35 Litre reservoir

#4 Atlas Copco ZT90 air compressor – 60 Litre reservoir



LE Solution:

Lubrication Engineers recommend Multilec® Industrial Oil LE6803 ISO68.

Multilec Industrial Oil is a heavy duty oil designed to prolong equipment life by combating the effects of high temperatures, water, contaminants and heavy loads that accelerate wear.

This long lasting, non-foaming, turbine quality oil provides superior resistance to heat, oxidation and moisture.



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The Lubrication Reliability Source™



Multilec® Industrial Oil features a balanced blend of premium base oils and robust additive technology, including rust and oxidation inhibitors and Monolec, LE's exclusive wear reducing additive which creates a single molecular lubrication film on metal surfaces, vastly increasing oil film strength without affecting clearances, Monolec allows apposing surfaces to slide by one another, greatly reducing friction, heat and wear.

Results:

**#1 Atlas Copco ZT90 air compressor – 60 Litre 62,689 current operating hours on LE6803
Eliminating 7 oil changes or 420 Litres of waste oil
Saving the company \$28,524.00 just on purchases alone
of OEM Roto Z Oil.**

**#2 Atlas Copco ZT255 air compressor – 35 Litre 48735 current operating hours on LE6803
Eliminating 6 oil changes or 175 Litres of waste oil
Saving the company \$12,033.00 just on purchases alone
of OEM Roto Z Oil.**

**#3 Atlas Copco ZT255 air compressor – 35 Litre 41674 current operating hours on LE6803
Eliminating 4 oil changes or 140 Litres of waste oil
Saving the company \$9,730.00 just on purchases alone
of OEM Roto Z Oil.**

**#4 Atlas Copco ZT90 air compressor – 60 Litre 47249 current operating hours on LE6803
Eliminating 5 oil changes or 300 Litres of waste oil
Saving the company \$20,628.00 just on purchases alone
of OEM Roto Z Oil.**

With regular monitoring of Oil Analysis, the air compressor oil drains have been extended up to 8 x the OEM recommended drain interval of 8000 hours.

Although the energy reductions were not recorded at the time of changing to Multilec®, LE advises that the users of LE lubricants who have documented power consumption on various pieces of equipment have generally seen a 5 to 20 percent reduction in power requirements. The average documented savings using LE lubricants in air compressors is 12 percent. Unfortunately, prior to installing Multilec in these compressors, the power consumption was not documented, so it is not possible to show this plant's energy savings.

Thank you to David O'Carroll, Brewery Engineer, for his assistance with this report and to Lion Breweries for the companies long standing relationship with Lubrication Engineers NZ Ltd since 1980.



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