



## Summit Ultima

### An Overview

In the early 1990s, Summit set out to find a new candidate base oil for a rotary screw air compressor lubricant. This new base oil would provide a step change improvement in oxidation stability, providing longer performance life in high temperature environments. Working closely with Exxon Chemical Company (currently ExxonMobil Chemical), Summit tested numerous polyol ester type base oils that had been used in applications requiring high temperature oxidative stability. Summit even expanded the search to include base oils that had been developed for alternate applications but were never fully commercialized.

One of the esters previously developed for an unrelated application showed great initial promise in providing the specific properties we were looking for. Further work was initiated to develop an additive system that fully complemented the outstanding properties of the base oil, resulting in a product optimized for rotary screw compressors. This multiyear project culminated in the release of **Summit Ultima**, still the only product of its kind on the market.

**Summit Ultima** is a unique, high performance, synthetic formula designed specifically to exceed the service requirements of extreme conditions in rotary screw air compressors. It is particularly suited to replace polyglycol/ester blends commonly marketed by the rotary screw air compressor manufacturers. These products are known to have high temperature oxidation stability limitations, as evidenced by the fact that the manufacturer downgrades its expected life if the operating temperature exceeds 200°F. **Summit Ultima**, on the other hand, can be recommended for 8000 hours under the most difficult high temperature conditions encountered in single stage rotary screw compressors. With such long service life, **Ultima** offers significant cost savings over the manufacturer's product. Another advantage of **Summit Ultima** is its compatibility with PAO, diester, petroleum and even polyglycol based air compressor lubricants. This eliminates the need for a flush when changing a compressor over from one of those products to **Ultima**. Furthermore, this versatility of use can decrease inventory costs and simplify the life of maintenance managers.

In summary, **Summit Ultima** shows significant advantage in high temperature oxidative stability over every other synthetic compressor lubricant in the world. This advantage translates into extended life and reduced deposit formation in even the toughest screw compressor application environments.

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