

APPLICATION

On- and Off-Road Fleet

Engine Oil Changeover Cuts Fleet Costs

CUSTOMER TESTIMONIAL

Alaskan Oilfield Services Company

Customer Profile

This oilfield services company is located on the north slope of Prudhoe Bay, Alaska.

Application

The company's fleet is comprised of more than 2,000 pieces of equipment, including service trucks; dozers; wheel loaders; scrapers; cranes; pressure pumpers; haul, vacuum and water trucks; snow blowers; and diesel generators.

Challenge

The most critical and costly asset on any piece of mobile equipment is the engine. The cost to rebuild an engine can cost anywhere from \$6,000 to \$25,000 plus labor and downtime. It makes sense to protect this critical asset by using the best quality lubricant, coupled with a proactive condition monitoring program. To ensure the engines were well-protected in the extreme Alaska weather conditions, the company was performing all service truck engine oil changes every 200 hours, and all heavy-duty, off-road equipment engine oil changes every 300 hours. Keeping up with routine maintenance activities such as oil changes, inspections and general repairs was a daunting task for the maintenance team.

LE Solution

An LE representative recommended Monolec Ultra® Engine Oil to extend drains while maintaining superior wear protection. Monolec

CHALLENGE

Excessive costs of frequent oil changes on large fleet combined with need for high-quality oil to protect critical engines

SOLUTION

Monolec Ultra® Engine Oil (8130 & 8800)

RESULTS

- Extended drain intervals from 200-300 hours to 1,200 hours
- Saved more than \$1.6 million annually by reducing costs:
 - o Per run hour by 50%
 - o Oil usage by 46%
 - o Used oil disposal by 67%
 - o Labor by 76%
 - o Downtime by 76%



Results

After using the LE oil for 18 months, the company documented its annual cost reductions due to the changeover. The results showed great performance and a healthy return on investment, with total annual savings of more than \$1.6 million across the cost centers measured in the engine oil category. See the five accompanying charts for percentage reductions.



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Ultra is CK-4-rated, heavy-duty oil that provides exceptional all-season performance for diesel engines. It contains shear-resistant viscosity index improvers that provide good viscosity properties at both high and low temperatures. Available in 10W-30 and 15W-40 SAE grades, it increases engine life and provides improved fuel efficiency, rust protection and wear reduction. Extended drain service can be achieved with periodic filter changes and when using LE's Xamine® Oil Analysis Program. The company agreed to test Monolec Ultra® Engine Oil compared to the competitive lubricants they had been using. They focused on performance (viscosity and oxidation stability), wear protection (protecting critical parts at extended drain intervals), and cost.

In addition to standard engine oil analysis, the company monitored results across the fleet for before-and-after comparisons of cost per run hour, oil usage, used oil disposal, labor, and downtime. Monolec Ultra achieved exceptional results, extending drains out to 1,500+ hours on most of the fleet's engines while maintaining superior wear protection. This convinced them to switch all their engines to LE's Monolec Engine Oils, establishing a 1,200-hour drain interval for all mobile equipment.

