

APPLICATION

Mobile Equipment Seals & Wheel Bearings

LE Gear Oil Reduces Seal & Bearing Failures

CUSTOMER TESTIMONIAL

Alaskan Oilfield Services Company

Customer Profile

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

Application

Every day the company uses its Caterpillar wheel loaders, graders and dozers; Volvo wheel loaders; and a Kubota loader retrieval.

Challenge

The company was using a major brand competitive gear oil in its loaders, graders and dozers. However, this oil was providing inadequate lubrication for the heavy loads and frigid temperatures down to -50°F (-45.5°C). This led to brittle seals, which introduced contamination, lubricant starvation, and wheel bearing failures. The company was replacing 400 to 500 seals and wheel bearings each year.

LE Solution

LE recommended Monolec Syn Gear Oil (9919) to address this customer's problems. Monolec 9919 would provide year-round protection in extremely cold conditions, preventing seal leakage and wheel bearing failures. The customer started using it in August 2017.

CHALLENGE

Frequent failures due to heavy loads and extreme cold

SOLUTION

Monolec® Syn Gear Oil (9919)

RESULTS

- Reduced seal & wheel bearing failure by 40%
- Achieved \$576,000 total annual savings
 - o Saved \$138,000 per year in replacement parts
 - o Saved \$78,000 per year in labor costs
 - o Saved \$360,000 per year in downtime



Results

Prior to the lubricant switch, the customer was replacing between 400 and 500 seals and wheel bearings annually at an average cost of \$460 each, totaling \$230,000 in parts alone. It took four hours to replace each wheel bearing assembly, which cost the company 2,000 hours of reactive maintenance totaling \$130,000 in labor. Last, with 2,000 hours of machinery unavailability, the company had a lost production cost of \$600,000 in downtime. LE's Monolec Syn Gear Oil (9919) reduced the annual seal and wheel bearing failures by 40%, which provided a total annual savings of \$576,000.



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