

8800 MONOLEC ULTRA® ENGINE OIL
KIRSCHENMAN'S WATER WELL DRILLING., Inyokern, CA
 Various Equipment • SIC 1781 Water Well Drilling

LE's 8800 Monolec Ultra® Engine Oil Eliminate the high oil consumption, deliver higher oil pressure, extend oil change intervals with increased engine life and give better performance in service



CUSTOMER PROFILE

Kirschenman's Well Drilling is located in Inyokern, CA. They are a drilling and service company, installing water wells, pumps, boosters and support equipment. Karl Kirschenman is in partnership with his father Aaron. They have been an LE customer for over 22 years.

APPLICATION

Inyokern, CA is located in California's high desert region known as the Mojave Desert. The Koering rotary drilling rig operates at altitudes of minus 200 ft. in Death Valley to over

7,000 ft. in the High Sierras. Ambient temperatures can range from well below 0°F. (18°C) to over 120°F (49°C). This environment, combined with, at times, nonstop running, places severe strain on equipment, operators and lubricants. Downtime costs can amount to hundreds of dollars per hour.

The 1978 Koering Speed Star SS15-2 rotary drilling rig is powered by a Cummins 400 Big Cam engine and utilizes a Sullair 750-250 screw compressor. Support equipment includes an International water truck with a DT466 engine, a Ford F350 4x4 with an International 7.3 liter diesel.

LUBRICATION ENGINEERS, Inc.

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AREA OF INTEREST

While using a commercial grade engine oil, they were experiencing low oil pressure and high oil consumption. In 1983 the Cummins engine had been in service five years, and it was necessary to do an overhaul.

LE SOLUTION

In December, 1985, LE Lubrication Consultant Mark Nickel recommended **LE's 8800 Monolec Ultra[®] Engine Oil to eliminate the high oil consumption, deliver higher oil pressure, extend oil change intervals with increased engine life and give better performance in service.** LE's 8800 is formulated for heavy-duty, long drain service in diesel and gasoline engines. It improves fuel efficiency, reduces wear and provides all-season, all weather performance. LE's 8800 is made from select paraffinic base oils and contains Monolec, LE's exclusive wear-reducing additive.

CUSTOMER COST SAVINGS

Kirschenman's Well Drilling began using LE's 8800 Monolec Ultra two and one half

years after the engine had been overhauled. This engine was finally replaced with a Factory Cummins ReCon in 2005. It delivered 20 years of deep well drilling. The New ReCon engine has very little oil consumption, very little blow-by and excellent compression. Oil drain intervals range between 300 and 500 hours on a "time available" basis. Karl Kirschenman states that using LE's 8800 allows him to operate this way since he is confident it will handle the extended service intervals should drilling conditions and/or business load require it.

Karl Kirschenman is very pleased with all LE products.

He states, "With drilling costs over \$30 a foot, that 20 years of service with LE's 8800 Monolec Ultra Engine Oil versus five years with the major oil company engine oil has made KWD hundreds of thousands of dollars in additional profits, and saved the cost of three ReCon engines at over \$12,000 each."

We wish to thank Karl Kirschenman, Partner, and LE Lubrication Consultant Mark Nickel (pictured) for the information provided to prepare this report.

