

# It Never Breaks Down in Your Driveway

## AMSOIL Synthetic ATF and SEVERE GEAR™ Synthetic Gear Lubes Provide Maximum Protection for Severe Operating Conditions



faced with the challenge of providing adequate wear protection during severe service operating conditions, while also providing maximum fuel efficiency.

Many people overstress their vehicles while on vacation. It is not uncommon to see vacationing families driving around in overloaded vehicles. The roof rack is filled with equipment, the back seat is filled with bags and the suspension is bottomed out. Some vehicles also pull trailers or fifth-wheels with boats, and some of these vehicles exceed their rated towing limits. As vehicle stress increases, transmission and differential temperatures rise and cause conventional lubricants to thin, causing inadequate lubrication that can lead to component failure.

There is much to be done before leaving for a vacation, not the least of which is proper vehicle maintenance. Most people are aware of the importance of changing their motor oil, but many people overlook the importance of changing the automatic transmission fluid and gear lube. Proper engine and drivetrain maintenance are equally important. After all, if the drivetrain fails, it doesn't matter how well the engine has been maintained. Nothing ruins a vacation quicker than becoming stranded in a remote area due to neglecting proper fluid maintenance.

Some vehicle manufacturers require the factory-fill differential gear lube to be changed within the first 3000 miles, or the first 500 miles if towing, a fact not known by many consumers. Because differentials go through a break-in period and are not equipped with filters like transmissions and engines, the gear lube must be changed in order to drain the break-in wear particles. These particles, if left in the differential, mesh between the gears and cause gear or bearing wear or failure. Recent studies show that most differential wear occurs in the first 5,000 miles.

Although many motorists consider their everyday driving habits to be normal, this is not always the case. In addition, some vehicles are subjected to extreme operating conditions such as snow plowing, hauling heavy loads and towing heavy trailers. These extremes put more stress on drivetrain components than just driving back and forth to work. New vehicles such as turbo diesel trucks and vehicles with V-10 engines boast more horsepower and torque than their predecessors, but differential designs have remained virtually unchanged. Differentials today are subjected to severe duty service and encounter more stress and heat than was seen only a few years ago. Modern gear oils are

AMSOIL Synthetic Universal Automatic Transmission Fluid (ATF) and SEVERE GEAR™ 75W-90 and 75W-140 Synthetic Gear Lubes (SVG & SVO) provide maximum protection in demanding environments such as towing, hauling and commercial use, providing increased lubricant film protection and reduced wear at elevated temperatures. Synthetic ATF and SEVERE GEAR™ Synthetic Gear Lubes are formulated for extended drain intervals of up to 50,000 miles in severe service and 100,000 miles in normal service, or longer where specified by the vehicle manufacturer.

