



What gear oil should I use?

Your new Wavetrac® differential is incredibly durable and will withstand the harshest environments...as long as suitable oil is used. Many customers ask what oil we recommend for use with the Wavetrac® differential. We feel the best answer is:

Use the "factory fill."

In other words, use the gear oil spec that your car manufacturer recommends for your car. The Wavetrac® is compatible with virtually all factory-installed gear oils used today. If you are racing your vehicle, and wish to upgrade the gear oil to improve performance or durability in racing conditions, choose the oil carefully: be aware that some gear oils have additives that are not recommended for use with your Wavetrac®.

Some have friction modifiers designed for limited slip differentials. These modifiers generally increase slipperiness and are intended to reduce clutch disc chatter in conventional clutch-type LSDs. Some gear oils such as Red Line Oil's Shockproof® type have microscopic solid particles in immersion in order to "cushion" transmission components, acting as an extreme pressure agent. The Wavetrac® and all helical gear differentials in general, operate using friction. The friction generated between its internal gears and its housing are what allow this type of differential to function.

Gear oil additives that drastically reduce friction will actually reduce the performance of gear differentials. The internals of the diff get too slick to generate adequate friction - reducing the differential's effectiveness - reducing its ability to drive both wheels.

In conclusion, when using a Wavetrac®:

- Use factory spec oils for your car
- Use Motul Synthetic high performance oils if you wish to upgrade the oil. Please consult Autotech Driveline for recommendations.
- Avoid gear oils with limited slip additives.
- Do NOT use RedLine, Shockproof® or similar gear oils.

Performance Gear Oils we recommend:

Requirement	Oil
75W90	Motul Gear 300 (100118 1l)
75W140	Motul Gear Competition (101161 1l)
Motul Gear Oil is available from Wavetrac dealers	

Please note that you will void the Wavetrac® Limited Lifetime Warranty if incorrect gear oil is used.

What kind of horsepower can the Wavetrac handle?

The WAVETRAC differential is engineered to take just about as much horsepower as you can throw at it. In almost any given transmission or rear axle, the WAVETRAC Differential is not the limiting factor in torque capacity. If you have any questions regarding this, please feel free to contact us.

What sort of maintenance is required when using a Wavetrac differential?

There is no additional maintenance required when using the WAVETRAC differential. You can simply install it and "forget" it!

What can I do to get Wavetrac to make a custom differential for me?

Autotech is always open to doing special batch runs of differentials, This is one of our specialties. Although a single, custom WAVETRAC differential could be made, it is often cost-prohibitive. A typical, small batch run of differentials is 30-50 units.