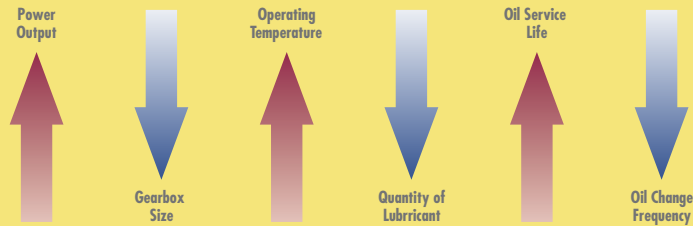


Keeping gears in motion!

The world is changing: recent developments in industrial gearboxes



Can your gearbox cope with today's demands?

Working conditions nowadays mean that equipment must be able to run at higher operating temperatures, handle increased loads and cope with exposure to water and other contaminants. In these tough conditions, operators need a gear oil that is designed to tackle the problems that can affect operational efficiency.

Shell has invested heavily in R&D to ensure that we can provide a revitalised range of gear oils that meets these new challenges and offers:

- Enhanced gearbox protection
- Longer oil life
- High energy efficiency
- Enhanced seal compatibility

A full range to match your requirements

The revitalised range of Shell gear oils includes our well-known Omala and Tivela brands. These specialist oils have proven their protective abilities in millions of hours of use all over the world.

Gear Oil Selection Table

Product	Gear Type	Max. Temp.	When to recommend
Shell Omala	All (except worm)	Up to 100°C (210°F)	For loaded gears operating under normal conditions
Shell Omala HD	All (except worm)	Up to 120°C (250°F)	Extreme pressure and high temperatures Heavy loads
Shell Tivela S	Worm	Up to 120°C (250°F)	Worm gears

This table is a guide only. Contact Shell Lubricants today for more details on selecting gear oils for your application. When selecting a gear oil always check seal compatibility. It is not recommended to operate gearboxes at these temperatures for extended periods of time.



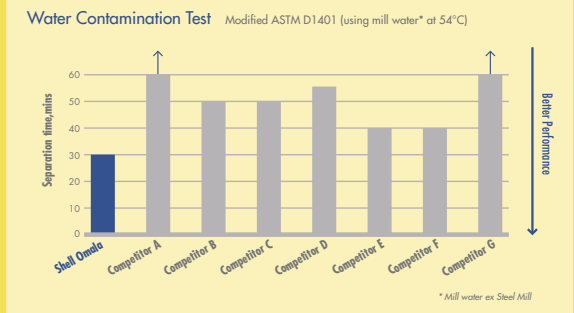
Our gear oils comply with the latest specifications and the severe tests of relevant original equipment manufacturers.

For detailed information, please refer to the product data sheet.

Shell Omala: exceeding the norm

Shell Omala is a general-purpose gear oil that meets or exceeds all key industry standards, and is recommended, approved or listed by over 120 key original equipment manufacturers (OEMs). It is designed to lower your running costs by:

- **Lengthening the life of your equipment** through excellent wear protection. High resistance to foaming and exceptional demulsibility maintain the fluid's performance when contaminated with water
- **Increased oil life** through high oxidation stability



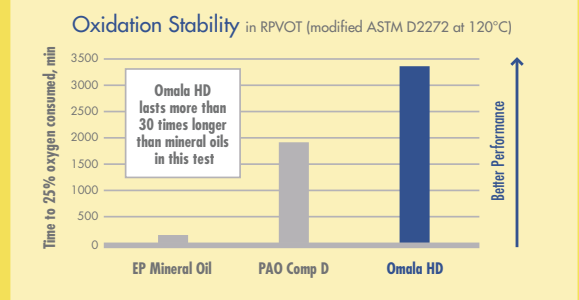
Shell Omala HD: superb performance in tough conditions

Our synthetic, PAO-based Shell Omala HD gear oil, listed by over 30 key OEMs, is especially suitable for gearboxes operating under extreme pressure, in high temperatures or with heavy loads. It meets all major OEM specifications and offers:

- **High gearbox protection** through outstanding anti-wear capabilities compared to mineral EP oil
- **Very low wear** in the FAG FE8 key bearing test
- **High resistance to micropitting**

With Omala HD, you benefit from:

- Up to **4 times extended oil life** compared to conventional mineral oils in the same application
- Up to **25% reduction in energy loss** compared to mineral oils in the same application



Shell Tivela S: keeping worm gears turning

Shell Tivela S is a PAG-based synthetic lubricant suited to meet the requirements of worm gears. Tivela S is approved, recommended or listed by over 50 different OEMs including some of the biggest names in general engineering and the gear industry. It provides exceptional protection, long fluid life and high energy efficiency.

For more information, contact:

