



## Gulf Gear LS

### Limited-Slip Differential Gear Oil

#### Product Description

**Gulf Gear LS** is an extra high performance extreme pressure type automotive gear lubricant specially developed for use in modern high performance passenger cars, sports utility vehicles, vans and light duty trucks with limited slip differentials. It is blended from selected high quality base oils and advanced performance additives to provide exceptional protection against thermal degradation, component wear and oil seal deterioration for extended service life. The special friction modifier used in this oil helps in reducing chatter and improving traction besides retaining the frictional properties for longer service life. It also offers effective protection against oxidation degradation and rust & corrosion. It exceeds the requirements of API GL-5/MT-1, MIL-PRF-2105E, SAE J 2360 and various global equipment manufacturers.

#### Features & Benefits

- Outstanding thermo-oxidative stability prevents formation of deposits to offer extended gear, bearing and seal life and longer service life
- Exceptional load-carrying capability protects against shock loading and wear under different speed-load conditions to enhance equipment durability and reduce maintenance costs
- Excellent limited slip performance reduces chatter and improves traction
- Effective rust and corrosion protection reduces wear and extends component life
- Good low temperature fluidity (80W-90 and 85W-140) reduces wear and provides easy start-up under low ambient temperatures
- Good anti-foam properties ensure film strength for effective lubrication.
- Excellent seal compatibility helps minimise leakages and reduce chances of contamination

#### Applications

- Limited-Slip differentials of modern high performance passenger cars, sports utility vehicles, vans and light duty trucks requiring API GL-5/MT-1 quality oils
- Heavy duty non-synchronised manual transmissions, axles and final drives where API GL-5/ MT-1 quality oils are specified
- Not recommended for automatic transmissions

#### Specifications, Approvals & Typical Properties

| Meets the following Specifications    |             | 80W-90         | 85W-140 | 90    |
|---------------------------------------|-------------|----------------|---------|-------|
| API GL-5,                             |             | X              | X       | X     |
| API MT-1, US MIL-PRF-2105E, Mack GO-J |             | X              | X       |       |
| US MIL-L-2105D                        |             |                |         | X     |
| Has the following Approvals           |             |                |         |       |
| ZF TE-ML-05C, 12C, 16E, 21C           |             |                |         | X     |
| Typical Properties                    |             |                |         |       |
| Test Parameters                       | ASTM Method | Typical Values |         |       |
| Viscosity at 100 °C, cSt              | D 445       | 15.00          | 27.00   | 16.00 |
| Viscosity Index                       | D 2270      | 100            | 96      | 97    |
| Flash Point, °C                       | D 92        | 210            | 230     | 220   |
| Pour Point, °C                        | D 97        | -27            | -18     | -12   |
| Density @ 15°C, kg/l                  | D 1298      | 0.895          | 0.900   | 0.896 |

June 2009

Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor.

Gulf Oil International

The information contained herein is believed to be correct at time of publication. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of the products. Gulf Oil International reserves the right to modify and change its products and specifications without prior notice.

[www.gulfoilltd.com](http://www.gulfoilltd.com)