

# CHAMPION NEW ENERGY

## 80W90 GL 5

This is a synthetic based lubricant for transmissions, which distinguishes itself from the classic, hypoid GL 5-oils by its multifunctional character and its exceptional oxidation and thermal stability.

### APPLICATIONS

It is specifically recommended for all manual gear boxes and final drives of heavy vehicles and trucks. Owing to its universal character, it can be used without any problems for all transmission parts, where API GL 4- or GL 5-oils is recommended.

### FEATURES

Frictional properties: very smooth gear shifting, no vibration

Extended oil life: optimized thermal and oxidation stability

Anti-wear protection: long transmission life

### PERFORMANCE

|                      |                   |               |           |
|----------------------|-------------------|---------------|-----------|
| <b>API</b>           | GL-4              | <b>SCANIA</b> | STO 1:0   |
| <b>API</b>           | GL-5              | <b>ZF</b>     | TE-ML 02B |
| <b>API</b>           | MT-1              | <b>ZF</b>     | TE-ML 05A |
| <b>MIL</b>           | PRF-2105E         | <b>ZF</b>     | TE-ML 07A |
| <b>SAE</b>           | J 2360            | <b>ZF</b>     | TE-ML 08  |
| <b>ARVIN MERITOR</b> | 0-76-N            | <b>ZF</b>     | TE-ML 12E |
| <b>DAF</b>           | GL5/MIL-PRF-2105E | <b>ZF</b>     | TE-ML 12L |
| <b>DAIMLER TRUCK</b> | DTFR 12B100       | <b>ZF</b>     | TE-ML 12M |
| <b>IVECO</b>         | MIL-PRF-2105E     | <b>ZF</b>     | TE-ML 16B |
| <b>MACK</b>          | GO-J              | <b>ZF</b>     | TE-ML 16C |
| <b>MAN</b>           | 341 E-2           | <b>ZF</b>     | TE-ML 16D |
| <b>MAN</b>           | 341 Z-2           | <b>ZF</b>     | TE-ML 17B |
| <b>MAN</b>           | 342 M-2           | <b>ZF</b>     | TE-ML 19B |
| <b>MB</b>            | 235.0             | <b>ZF</b>     | TE-ML 21A |
| <b>RENAULT</b>       | B0032/3 Annex 3   |               |           |

### TYPICAL CHARACTERISTICS

| Test                         | Method     | Unit  | Average results |
|------------------------------|------------|-------|-----------------|
| Density at 15°C              | ASTM D4052 | g/ml  | 0.896           |
| Kinematic viscosity at 40°C  | ASTM D445  | mm²/s | 135             |
| Kinematic viscosity at 100°C | ASTM D445  | mm²/s | 14.5            |
| Viscosity index              | ASTM D2270 |       | 107             |
| Pour point                   | ASTM D6892 | °C    | -36             |
| Flash Point COC              | ASTM D92   | °C    | 200             |

We reserve the right to alter the general characteristics of our products in order to let our customers benefit of the latest technical evolutions.

#### CHAMPION CHEMICALS NV

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