



# Multigear® S 75W-90

## High performance synthetic Total Driveline Lubricant

Product Data Sheet

### Product description

Multigear S 75W-90 is a high performance synthetic Total Driveline Lubricant offering extended drain capabilities. This lubricant is suitable for use in API GL-4 and API GL-5 applications.

Multigear S 75W-90 is formulated with fully synthetic base oils in combination with high performance additives.

### Customer benefits

- Specially tuned friction characteristics allow use in synchronized manual transmissions and final drives, assisting product rationalisation
- Extended drain capability helps reduce maintenance and offers increased system performance, protection and uptime
- Durable shear stability promotes constant high performance system lubrication and protection throughout lubricant service life
- High viscosity index (VI) offers consistent fluid viscosity and critical system protection under high temperature operation
- Low temperature fluidity contributes rapid fluid circulation and the protection of vulnerable components at cold system start up
- Dependable oxidation stability helps prevent in-service oil thickening and aids resistance to harmful deposit and varnish formation
- Compatible with a wide range of elastomer materials, helping prevent fluid leakage and loss
- Promotes reliable rust and corrosion protection in ferrous and yellow metals in gears and bearings
- Offers good foam suppression and consistent system lubrication and protection

### Product highlights:

- Extended drain capability
- Suitable for manual transmissions and final drives
- Durable shear stability
- High temperature protection
- Cold start protection

### Selected specification standards include:

- API
- DAF
- Daimler
- MAN
- NATO
- Scania
- ZF

A Chevron company product



## Applications

- Multigear S 75W-90 is designed for use in automotive manual transmissions which require a fluid with API GL-4 or GL-5 performance, and for hypoid drive axles where an EP oil meeting API GL-5 or MT-1 is required. It meets the requirements of SAE J2360 (formerly MIL-PRF-2105E)
- The thermal stability makes Multigear S 75W-90 suitable for use in applications with higher operating temperatures than is possible when using mineral gear oils. The special characteristics of the synthetic base oils lead to a reduction in the operating temperature, further extending the service capability in arduous operating conditions, or improving fuel economy in normal service conditions. It is capable of significantly longer service intervals than conventional mineral gear oils, up to 2 times longer in transmissions and more than 3 times longer in drive axles. (The precise service interval varies according to application and service severity - refer to the manufacturers' literature for further details)
- Multigear S 75W-90 is not recommended for use in ZF transmissions fitted with intertarders (this includes some models from constructors such as DAF and MAN). For these exceptions, use an approved fluid such as Multigear MTF 75W-80

## Approvals, performance and recommendations

### Approvals

- |          |   |
|----------|---|
| • DAF    | Gearbox oil for ZF gearboxes <sup>1</sup> |
| • MAN    | 341 Type E3                               |
| • MAN    | 3343 Type S                               |
| • Scania | STO 1:0 <sup>2</sup>                      |
| • ZF     | TE-ML 02B                                 |
| • ZF     | TE-ML 05B                                 |
| • ZF     | TE-ML 12B                                 |
| • ZF     | TE-ML 16F                                 |
| • ZF     | TE-ML 17B                                 |
| • ZF     | TE-ML 19C                                 |
| • ZF     | TE-ML 21B                                 |

### Performance

- |       |      |
|-------|------|
| • API | GL-4 |
| • API | GL-5 |
| • API | MT-1 |



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## High performance synthetic Total Driveline Lubricant

continued

- DAF Gearbox oil for Eaton gearboxes <sup>3</sup>
- DAF Rear axle without hub reduction <sup>4,6</sup>
- DAF Rear axle with hub reduction <sup>5,6</sup>
- Daimler MB 235.8
- NATO O-226
- ZF TE-ML 07A <sup>7</sup>
- ZF TE-ML 08 <sup>7</sup>

<sup>1</sup> ZF gearboxes without interarder, standard changing interval.

<sup>2</sup> For use in manual gearboxes where the outside temperature range is <-30°C to +30°C.

<sup>3</sup> Eaton gearbox applied in vehicle series LF45/55, 65/75/85 CF, CF 65/75/85; extended changing interval.

<sup>4</sup> Except for type V200/V400 (requires an SAE 85W-140 oil).

<sup>5</sup> Except for type 1356.

<sup>6</sup> For outside temperature range -40°C to +40°C; standard changing interval.

<sup>7</sup> Products meeting the necessary performance requirements for these standards are approved for use by ZF, but there is no product listing.

### Typical test data

| MULTIGEAR S 75W-90                          |              |         |
|---|--------------|---------|
| TEST  | TEST METHODS | RESULTS |
| Product Code                                |              | 32840.1 |
| Visc, Kinematic, 100 °C, mm <sup>2</sup> /s | ASTM D445    | 14.7    |
| Visc, Kinematic, 40 °C, mm <sup>2</sup> /s  | ASTM D445    | 98      |
| Viscosity, Brookfield, -40°C, mPa.s         | ASTM D2983   | 56,000  |
| Viscosity Index                             | ASTM D2270   | 157     |
| Density, 15°C, kg/l                         | ASTM D4053   | 0.868   |
| Flash Point COC, °C                         | ASTM D92     | 202     |
| Pour Point, °C                              | ASTM D97     | -54     |

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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**Health, safety, storage and environmental** Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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