

**Agip Sigma Ultra TFE
SAE 10W-40**

**ACEA E4; E7
MB-approval 228.5
API CF
UHPD**

Modern high performance fuel efficiency oil for highest loads, for prolonged oil change intervals for commercial vehicles, especially for the new optimised exhaust emission EURO-3-engines.

Characteristics (typical figures):

| Agip SIGMA ULTRA TFE | Unit | SAE 10W-40 | Test Methode |
|------------------------------|-------------|-------------------|---------------------|
| Kinematic Viscosity at 40 C | cSt | 91.2 | ASTM D 445 |
| Kinematic Viscosity at 100 C | cSt | 14.0 | ASTM D 445 |
| Viscosity Index | | 155 | ASTM D2270 |
| Density at 15 C | kg/l | 0.867 | ASTM D 4052 |
| Flashpoint | C | 218 | ASTM D 92 |
| Pourpoint | C | -28 | ASTM D 97 |
| Sulphate ash | g/100g | 1.8 | Din 51 575 |
| Base number | mgKOH/g | 14.5 | Din ISO 3771 |

Properties and Performance:

Agip SIGMA ULTRA TFE meets the highest performance level for diesel engines, which are also described as UHPD (Ultra High Performance Diesel). Due to the special co-ordination of the additives with the unconventional base oil of the HXVI-Synthesis the application in all diesel engines, especially for turbocharged high performance engines, is possible. Compared with other conventional multigrade diesel oils the fuel efficiency properties cause reduction of fuel consumption. Due to the cold viscosity SAE 10W a fast lubricating of the engine at the start is guaranteed, even at low ambient temperatures. The high agent concentration accomplishes excellent cleanliness and long-lasting engines, low friction and high wear protection at all operating conditions.

Applications:

Agip SIGMA ULTRA TFE is a modern fuel efficiency oil, developed for the newest optimised exhaust emission EURO-3 engines. Due to the friction decrease in the mixed friction area the wear and fuel consumption are reduced. The maximum performance and life span of the engine are guaranteed because of the high safety against „bore polishing“, optimum cleaning effect of the oil and the low evaporation loss. The oil can also be used in older diesel engines and stationary diesel units.

Agip SIGMA ULTRA TFE is recommended respectively approved by renowned automobile and engine manufacturers for the longest oil change intervals.

Due to the additization **Agip SIGMA ULTRA TFE** is recommended for the application in diesel engines, not in gasoline engines.

Please observe the manufacturer's specifications when selecting products!

Specifications

Agip SIGMA ULTRA TFE, meets or exceeds the requirements of the following specifications.

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|---------------------------|--------------------|
| ACEA E4; E7 | MB-approval 228.5 |
| API CF | MAN M 3277 |
| UHPD | VOLVO VDS-3 |
| -Excellent- | Scania LDF-2 |
| DAFHP-2* (extended drain) | MTU Type 3 |
| IVECO* | Deutz DQC III-05 |
| Cummins* CES 20072 | RENAULT RXD, RLD-2 |

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