



# AGIP SIGMA TFE

**AGIP SIGMA TFE** is a long-drain fuel saving multigrade oil (S.H.P.D.) for supercharged diesel engines operating under severe duty such as TIR road transport, for instance. It permits long oil-drain intervals (S.H.P.D. = Super High Performance Diesel oil). The oil can also be used in normally-aspirated diesel engines installed in vehicles engaged on urban and short-haul goods and passenger service, as well as in supercharged diesel car engines, providing a very quality margin.

## CHARACTERISTICS (TYPICAL FIGURES)

### AGIP SIGMA TFE

<b>SAE Grade</b>		<b>10W-40</b>
Viscosity at 100° C	mm <sup>2</sup> /s	14
Viscosity at 40° C	mm <sup>2</sup> /s	90
Viscosity at -20° C	mPa.s	3300
Viscosity Index	-	160
Flash Point COC	°C	220
Pour Point	°C	-33
Mass Density at 15° C	kg/l	0,870

## PROPERTIES AND PERFORMANCE

- The product exhibits marked resistance to deterioration, especially from oxidation which can be caused by prolonged high-temperature operation in the presence of air and other agents.
- The superior quality of the non conventional base oil used and the large percentage of additives adopted permit very long life between oil drains. Some manufacturers approve double the normal oil-service periods when **AGIP SIGMA TFE** is used in their normally-aspirated and supercharged diesel engines. The fuel saving ratio is in average of 3%.
- The multigrade properties of this oil make it suitable for use in all ambient temperature conditions. It retains a considerable viscosity (SAE 40) at high temperature, while remaining sufficiently fluid at low temperature to ensure easy starting.
- Its detergent-dispersant properties, combined with its very high, long-lasting ability to neutralize acidic products of combustion, keep pistons exceptionally clean, while solid combustion products are held in suspension, thus preventing the formation of harmful crankcase deposits.
- Its antioxidant, antirust and antiwear properties are designed for heavy duty service and to ensure very long oil-drain intervals. Oxidation is effectively minimized, thus preventing viscosity variations. All the metal parts of the engine are protected in this way and wear is reduced, ensuring maximum engine efficiency throughout its life.

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## SPECIFICATIONS

AGIP SIGMA TFE is officially approved or meets the requirements of the following services and specifications:

- ACEA E5, E3, B3, A2
- API CH-4/ SJ
- MAN M 3275
- MERCEDES BENZ 228.3, 229.1, 228.5
- MTU type 2
- VOLVO VDS2