



DESCRIPTION

The new engines developed by the Volkswagen Group, both Diesel and gas-powered, call for lubricants that meet new specifications. Direct fuel injection in Diesel engines with a common rail system has brought to an important improvement in gasoline combustion and to reduced consumption compared to engines with indirect injection.

This has determined the VW 50600 specification for cars with LLSI (Long Life Service Indicator) -engines equipped with sensors and showing oil change interval parameters- and, following that, the 506.01 specification.

In new gasoline engines the adoption of a multivalve system with hydraulic tappets has improved specific power and reduced consumption, consistent with the VW 50300 specification.

The VW 50301 specification, required for VW-AUDI turbo engines, examines lubricant behavior in relation to:

- Bearings
- Turbocharger
- Grease shearing at high temperatures
- Long life
- Effective reduction of fuel consumption (fuel economy)

PROPERTIES

- 1) The use of synthetic bases and modern additivation have made it possible to design **Syneco WHITE DIESEL 506 SAE 5W40 ACEA A3/B3** for Diesel engines that meet LVW 506.01 specification and capable of guaranteeing:
 - Detergence and dispersion for engine cleaning
 - High thermal and oxidation stability for long oil life, without carbon deposit formation, low volatility
 - Excellent behavior at low temperatures in order to facilitate start-up and the lubrication that this critical phase calls for
 - High anti-acid protection thanks to an alkaline reserve that allows long drives
 - Low level of sulphated ashes to limit deposit formation on the piston
- 2) Designed for gasoline engines, the **Syneco WHITE PETROL 503 SAE 5W40 ACEA A3/B3** formulation is recommended for VW-AUDI turbocharged engines and compliant with the VW 50301 specification. It guarantees:
 - High level of engine cleanliness
 - Excellent thermal and oxidation stability, for extremely long drives
 - Low volatility, adequate viscosity at low temperatures to facilitate start-up, but capable of limiting consumption at high temperatures
 - Specific protection against varnish, rust, and condensate formation

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APPLICATIONS

VW Group gasoline and Diesel engines (since May 1999) equipped with sensors that check oil change parameters with LLSI (Long Life Service Indicator) (VW, SEAT, SKODA, AUDI engines).

TECHNICAL CHARACTERISTICS

CHARACTERISTIC	WHITE DIESEL 506	WHITE PETROL 503
SAE grade	5W40	5W40
Density at 15°C	0,860-0,885 Kg/l	0,835-0,850 Kg/l
Viscosity at 100°C	12,5-16,3 cSt	14-15 cSt
Viscosity index	145-160	145-160
CCS -30	6360 cp	
Specifications	L.VW 506.01 ACEA A3/B3	L.VW 50301 ACEA A3/B3

(The above listed values refer to normal industrial production and do not constitute technical specification.)