

Gasoline & Light Duty Diesel Engine**TECHNICAL DATA SHEET****Product Description**

ALES FULLY SYNTHETIC 5W40 is an advanced technology, fully synthetic high-performance engine oil, blended with severely refined fully synthetic base stocks and fortified with sophisticated additive technology. It is specifically designed to provide extended oil drain intervals, reduce fuel consumption, protect anti-pollution systems, and improve overall engine performance. It helps prolong the life and maintain the efficiency of emission reduction systems in both diesel and gasoline-powered automobile engines, including recent multi-valve engines equipped with turbochargers and direct injection fuel systems. Its low content of sulfated ash, phosphorus, and sulfur reduces particulate build-up in Diesel Particulate Filters (DPFs) and prevents poisoning of gasoline catalytic converters (CATs).

Features & Benefits

- Extended oil drain intervals (>20,000 km), due to fully synthetic nature of base oils and advanced additive technology.
- Excellent fuel economy & easy cold starts due to extreme fluidity at low temperatures.
- Optimization of the anti-pollution systems and enhancing its life & efficiency, especially in DPFs & CATs.
- Improved additive technology, reduces sludge formation which improves engine cleanliness.
- Excellent oxidation & thermal stability keeps oil in grade, lower acid formation & extend drain intervals.
- Outstanding engine protection helps maintain longer engine life and compatibility with engine seals.

Specifications

ALES FULLY SYNTHETIC 5W40 meets or exceeds following International and Builder specifications:

- API SN, CF
- MB 229.31/51
- ACEA C3-16
- GM dexos2, Hyundai, Kia

Typical Characteristics

ALES FULLY SYNTHETIC 5W40	Test Method	Units	5W-30	5W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.845	0.850
Viscosity @ 100 °C	ASTM D 445	cSt	12.0	14.30
Viscosity @ 40 °C	ASTM D 445	cSt	69.55	88.6
Viscosity Index	ASTM D 2270	-	171	168
Pour Point	ASTM D 97	°C	-42	-42
Flash Point (COC)	ASTM D 92	°C	230	235
Total Base Number	ASTM D 2896	mg KOH/g	7.8	7.8
Phosphorous	ASTM D 4951	% wt	0.075	0.075
CCS Viscosity	ASTM D 5293	cP	6050 @ -30 °C	6250 @ -30 °C

The above figures are typical of blends with normal production tolerance and do not constitute a specification.

For further information, please contact: www.alesoil.com